

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

C Number:	C60139A
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	06/27/1987

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 1	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Pancreas	Preputial Gland
Skin	Spleen	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Bone	Cranium Femur	Fibrous Osteodystrophy Fibrous Osteodystrophy	Marked Marked
Heart		Degeneration Mineralization	Chronic, Mild Moderate
Intestine Large	Colon	Mineralization	Mild
Kidney		Mineralization Nephropathy	Moderate Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1+9			
Liver		Basophilic Focus Degeneration	Cystic, Mild
Note: CAUSE OF GRANULAR GROSS APPEARANCE NOT APPARENT ON MICRO.			
Lung	Artery, Mediastinum	Inflammation Mineralization Mineralization	Chronic Active, Moderate Marked Moderate
Note: INFLAMMATION TGLs = 3-2+3			
Note: MINERALIZATION TGLs = 3-2+3			
Lymph Node			
Note: ENLARGED MESENTERIC LN WITHIN NORMAL LIMITS ON MICRO.			
Note: ENLARGED MESENTERIC LN WAS ACTUALLY MESENTERY, NOT LN.			
Mammary Gland		Fibroadenoma Mineralization	Moderate
Note: FIBROADENOMA TGLs = 1-8			
Mesentery		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
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CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 1	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: MINERALIZATION TGLs = 5-8+13 Note: INFLAMMATION TGLs = 5-8	Artery	Mineralization	Moderate
Nose	Mucosa	Inflammation	Suppurative, Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-6			
Prostate		Inflammation	Chronic Active, Mild
Salivary Glands	Artery	Mineralization	Moderate
Stomach	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 7-7 Note: ATROPHY TGLs = 6-7			
Thyroid Gland	C Cell	Carcinoma	
		Mineralization	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 2	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 571 HISTO:
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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	Liver
Lung	Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Hyperplasia Pheochromocytoma Benign	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 3-1]			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Hyperplasia	Moderate
Note: ADENOMA	TGLs = 1-7		
Note: HYPERPLASIA	TGLs = 1-7		
Preputial Gland		Inflammation	Chronic Active, Mild
Note: INFLAMMATION	TGLs = 2-11		
Prostate		Inflammation	Chronic Active, Moderate
Thyroid Gland	Follicular Cel C Cell	Carcinoma Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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Animal Note: MORIBUND DUE TO PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 619
	DOSE: 0 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Degeneration	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Necrosis	Mild
Note: NECROSIS TGLs = 5-4			
Lymph Node			
Note: MEDIASTINAL LN WITHIN NORMAL LIMITS ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1-11			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
		Thrombosis	
Note: ADENOMA TGLs = 2,4-10			
Note: THROMBUS TGLs = 2,3-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: COD: HEART LESIONS MOST LIKELY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 619

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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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 - Mandibular	Mammary Gland	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

MISSING

Preputial Gland			
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OBSERVATIONS

Adrenal Gland	Cortex Medulla	Hyperplasia Hyperplasia	Mild Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mesenteric	Edema	Marked
Note: EDEMA TGLs = 2-11			
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Prostate		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 3-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thymus		Cyst	
Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Minimal
Tooth	Peridont Tiss	Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 5	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 602 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Epididymis		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 6-1]			
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 5	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 602 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-11		
Stomach	Forestomach	Ulcer	Mild
Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate
Note: ATROPHY	TGLs = 3-10		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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Animal Note: THORACIC FLUID DUE TO LEUKEMIA ALSO.
Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 673 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Pancreas
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Moderate
	Cortex	Hypertrophy	Minimal
Bone Marrow	Femoral	Myelofibrosis	Moderate
Heart		Degeneration	Chronic, Minimal
	Atrium	Thrombosis	
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Moderate
	Duodenum	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 4-1		
Liver	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-4		
Lung		Chordoma	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Marked
	Septum	Necrosis	Moderate
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Minimal
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 673 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Mild Minimal
Note: ATROPHY	TGLs = 1-10		
Note: ADENOMA	TGLs = 2-10		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND D T ATRIAL THROMBUS + ASSOC NECROSIS/INFLAM.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 673 HISTO:
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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
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Preputial Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
		Mineralization	Mild
Kidney		Mineralization	Moderate
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1			
Liver		Basophilic Focus	
Lung	Artery, Mediastinum	Inflammation	Chronic Active, Mild
		Mineralization	Moderate
		Mineralization	Mild
Lymph Node			
Note: MANDIBULAR LN ALSO WITHIN NORMAL LIMITS ON MICRO.			
Note: MESENTERIC LN WITHIN NORMAL LIMITS ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery	Artery	Mineralization	Moderate
Note: MINERALIZATION TGLs = 4-11			
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Prostate		Inflammation	Chronic Active, Marked
Stomach	Glandular	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 673 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urethra		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH	-
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Animal Note: MORIBUND DUE TO NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 8	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Dead	DAY ON TEST: 504 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Liver
Lung	Lymph Node - Mandibular	Nose	Pancreas
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum
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OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY ADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 509
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 2-7			
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORIBUND CONDITION UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 743

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mandibular	Pancreas	Preputial Gland
Salivary Glands	Skin	Spleen	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-1+11		
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Inflammation	Suppurative, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-7		
Prostate		Inflammation	Chronic Active, Mild
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal
	Glandular	Mineralization	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 470

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Esophagus

Eye

Intestine Large - Cecum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Parathyroid Gland

Pituitary Gland

Preputial Gland

Salivary Glands

Skin

Thymus

Trachea

OBSERVATIONS

Epididymis

Mesothelioma Malignant

Eye

Note: CAUSE OF YELLOW EYES NOT APPARENT ON MICRO.

Heart

Degeneration

Chronic, Minimal

Atrium

Thrombosis

Intestine Large

Colon

Mesothelioma Malignant

Rectum

Mesothelioma Malignant

Kidney

Mesothelioma Malignant

Liver

Centrilobular

Nephropathy

Chronic, Minimal

Necrosis

Minimal

Note: CAUSE OF GRITTY CAPSULE NOT APPARENT ON MICRO.

Lung

Thrombosis

Note: CAUSE OF GROSS OBS NOT APPARENT AT MICRO.

Lymph Node

Note: MANDIBULAR & MESENTERIC LNS WITHIN NORMAL LIMITS ON MICRO.

Mammary Gland

Hyperplasia

Cystic, Minimal

Mesentery

Mesothelioma Malignant

Note: MESOTHELIO MAL TGLs = 5-6+7+12

Pancreas

Acinus

Atrophy

Mild

Prostate

Mesothelioma Malignant

Inflammation

Chronic Active, Minimal

Spleen

Mesothelioma Malignant

Note: MESOTHELIO MAL TGLs = 6-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 11	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 470 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular Forestomach Glandular	Inflammation Mesothelioma Malignant Mesothelioma Malignant	Necrotizing, Acute, Minimal
Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
Note: ADENOMA TGLs = 7-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND CONDITION & ABD FLUID D T MESOTHELIOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 3-1+12]			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 1-11			
Stomach	Forestomach	Ulcer	Marked
Note: ULCER EXTENDS INTO MUSCULARIS,W/INFLAMM TO SEROSA.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO GASTRIC ULCER.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 608

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-7		
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-11		
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 2-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Dead

DAY ON TEST: 608
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Parathyroid Gland	Preputial Gland
Skin	Spleen	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Degeneration	Chronic, Mild
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Moderate
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 1-1		
Liver		Fatty Change	Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 3-7		
Prostate		Inflammation	Chronic Active, Mild
Salivary Glands		Inflammation	Suppurative, Mild
Stomach	Glandular	Inflammation	Necrotizing, Acute, Moderate
	Forestomach	Ulcer	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-10		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO GI LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 509

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Spleen
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Glandular

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Trachea

OBSERVATIONS

Heart
Kidney

Liver

Pituitary Gland
Stomach
Testes
Thyroid Gland

Renal Tubule

Pars Distalis
Forestomach
Bilateral, Interstit Cell
C Cell

Degeneration
Cytoplasmic Alteration
Nephropathy
Fatty Change
Inflammation
Hyperplasia
Ulcer
Adenoma
Adenoma

Chronic, Minimal
Mild
Chronic, Mild
Mild
Chronic Active, Mild
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORIBUND CONDITION UNDETERMINED.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 743

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
Note: IRREGULAR CAPSULE NOT APPARENT ON MICRO.			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Spleen			
Note: SPLEEN WITHIN NORMAL LIMITS ON MICRO.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 712 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Preputial Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Trachea

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
Note: MINERALIZATION TGLs = 6-4			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye		Degeneration	Marked
Note: DEGEN TGLs = 1-11			
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Pelvis	Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3,4-1]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
		Mineralization	Minimal
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 712 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 7-2+5+7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 5-7			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Leukemia Mononuclear Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear Fibrosis Leukemia Mononuclear	Moderate
[Fibrosis TGLS = 8-12]			
[Leukemia Mononuclear TGLS = 2-12]			
Stomach	Epithelium, Forestomach Forestomach	Hyperplasia Leukemia Mononuclear	Mild
Note: HYPERPLASIA TGLs = 9-6			
Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
Thyroid Gland	C Cell	Adenoma	
Urinary Bladder		Inflammation Leukemia Mononuclear	Suppurative, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND D T LEUKEMIA & NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 744

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2-11]			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 1-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 19	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Small - Duodenum			
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
Kidney	Renal Tubule	Leukemia Mononuclear	
		Necrosis	Moderate
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Note: LEUKEMIA MONUC	TGLs = 6-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,4-2+8		
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 19	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA	TGLs = 1-6	Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-1+8]			
Stomach	Glandular	Inflammation	Necrotizing, Acute, Minimal
Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Minimal
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Moribund

DAY ON TEST: 607
HISTO:

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 - Jejunum	Lymph Node - Mandibular	Prostate	Salivary Glands
Skin	Spleen	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Marked
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Ductus Deferens		Mineralization	Moderate
Heart		Degeneration	Chronic, Moderate
		Mineralization	Moderate
Intestine Large	Colon	Mineralization	Mild
Note: MINERALIZATION TGLs = 4-6			
Intestine Small	Ileum	Inflammation	Necrotizing, Acute, Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Moderate
Note: NEPHROPATHY TGLs = 1-1		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 1-1]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
Lung		Inflammation	Chronic Active, Moderate
	Artery, Mediastinum	Mineralization	Moderate
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20	TRT#: 1	SEX: Male	DAY ON TEST: 607
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Mineralization	Moderate
Note: ADENOMA	TGLs = 2-7		
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Glandular	Inflammation	Necrotizing, Acute, Minimal
	Forestomach	Mineralization	Marked
	Glandular	Mineralization	Marked
Note: MINERALIZATION	TGLs = 3-6		
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 602

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

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 - Mandibular	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2-1]			
Liver		Basophilic Focus	
		Fatty Change	Mild
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Stomach	Forestomach	Ulcer	Marked
Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY ADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 744

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Pancreas
Preputial Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Prostate	Urinary Bladder
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 5-14		
Heart		Degeneration	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 6-1+12]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin Note: ABSCESS TGLs = 1-13		Abscess	Moderate
Spleen Note: LEUKEMIA MONUC TGLs = 4-11		Leukemia Mononuclear	
Testes Note: ATROPHY TGLs = 3-10 Note: ADENOMA TGLs = 2-10	Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23	TRT#: 1	SEX: Male	DAY ON TEST: 525
	DOSE: 0 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

Intestine Large - Colon	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-7		
Prostate		Inflammation	Chronic Active, Minimal
Urin Bladder			
Note: FLUID IN U BLADDER WAS NORMAL (URINE).			

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 24

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Moribund

DAY ON TEST: 550
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Preputial Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 3-1]			
Liver	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4		Necrosis	Minimal
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Nose	Mucosa	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin		Inflammation	Necrotizing, Acute, Moderate
Note: INFLAMED SKIN IS OF PREPUCE, DUE TO PROLAPSED PENIS.			
Note: INFLAMMATION TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 24	TRT#: 1	SEX: Male	DAY ON TEST: 550
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 682

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Moderate
Heart		Degeneration	Chronic, Minimal
Intestine Large	Cecum	Inflammation	Suppurative, Mild
	Rectum	Inflammation	Suppurative, Mild
Note: INFLAMMATION	TGLs = 4-8+12		
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 5-1		
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-4		
Lung		Leukemia Mononuclear	
Mesentery		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild
Skin		Inflammation	Necrotizing, Acute, Mild
Note: INFLAMMATION	TGLs = 1-8		
Note: INFLAMED SKIN WAS PREPUCE, DUE TO PROLAPSED PENIS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA & NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 685

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mandibular
Nose	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Marked
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
		Mineralization	Mild
Kidney		Mineralization	Moderate
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 3-1		
Lung		Inflammation	Chronic Active, Mild
		Mineralization	Moderate
Mammary Gland		Hyperplasia	Cystic, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 4-6		
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26	TRT#: 1	SEX: Male	DAY ON TEST: 685
	DOSE: 0 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Moderate
Note: ATROPHY	TGLs = 2-7		
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 607

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mandibular	Pancreas
Preputial Gland	Salivary Glands	Skin	Thymus
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Moderate
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Moderate
Intestine Large	Colon	Mineralization	Marked
Note: MINERALIZATION			
TGLs = 3-6			
Kidney		Mineralization	Marked
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY			
TGLs = 5-1+11			
[Nephropathy TGLS = 1-1+11]			
Lung		Inflammation	Chronic Active, Mild
		Mineralization	Moderate
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA			
TGLs = 2-7			
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 607 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Marked
Note: MINERALIZATION TGLs = 4-6			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 647

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
	[Nephropathy TGLS = 4-1]		
Liver		Degeneration	Cystic, Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
	Note: INFLAMMATION TGLs = 3-10+11		
Stomach	Forestomach	Ulcer	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Note: ADENOMA TGLs = 1,2-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY & UROGENITAL INFLAMMATION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Preputial Gland
Stomach - Glandular
Urinary Bladder

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

Bone
Heart
Intestine Small - Duodenum
Liver
Pancreas
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Spleen
Trachea

OBSERVATIONS

Brain
Kidney
Nose
Pituitary Gland
 Note: ADENOMA TGLs = 1-7
Prostate
Stomach
Testes

Nasolacrim Dct
Pars Distalis

Epithelium, Forestomach
Interstit Cell

Compression
Nephropathy
Inflammation
Adenoma

Inflammation
Hyperplasia
Hyperplasia

Chronic, Minimal
Suppurative, Mild

Chronic Active, Mild
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY LESIONS.

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 30 TRT#: 1 SEX: Male DAY ON TEST: 667
 DOSE: 0 MG/ML DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Liver	Lymph Node - Mandibular	Preputial Gland
Salivary Glands	Skin	Spleen	Trachea
Urinary Bladder			

MISSING

Intestine Small - Jejunum	Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Marked
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Ductus Deferens		Mineralization	Moderate
Heart		Degeneration	Chronic, Moderate
		Mineralization	Moderate
Intestine Large	Colon	Mineralization	Moderate
Kidney	Pelvis	Inflammation	Suppurative, Minimal
		Mineralization	Marked
		Nephropathy	Chronic, Marked
Lung		Inflammation	Chronic Active, Moderate
		Mineralization	Moderate
Mesentery	Artery	Mineralization	Moderate
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Artery	Mineralization	Moderate
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	Pars Distalis	Mineralization	Marked

Note: HYPERPLASIA TGLs = 2-7
 Note: MINERALIZATION TGLs = 2-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Dead	DAY ON TEST: 667 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Marked
Stomach	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 744
HISTO:

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	Lymph Node - Mandibular
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Moderate
Kidney	Renal Tubule	Cytoplasmic Alteration	Mild
		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Moderate
		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 5-7		
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-11		
Note: FIBROSIS	TGLs = 3-11		
Stomach	Glandular	Leiomyosarcoma	
Note: LEIOMYOSAR	TGLs = 4-12		
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31	TRT#: 1	SEX: Male	DAY ON TEST: 744
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 1-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 536
DOSE: 0 MG/ML **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Thyroid Gland			

OBSERVATIONS

Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Prostate		Inflammation	Chronic Active, Mild
Thymus		Thymoma Benign	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Preputial Gland	Spleen	Thymus	Thyroid Gland
Trachea			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Marked
Note: MINERALIZATION TGLs = 5-4			
Intestine Large	Colon	Mineralization	Moderate
	Rectum	Mineralization	Moderate
Note: MINERALIZATION TGLs = 7-6			
Kidney		Mineralization	Marked
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-1]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Moderate
		Mineralization	Moderate
Lymph Node			
Note: MESENTERIC LN WITHIN NORMAL LIMITS ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Artery	Mineralization	Mild
Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Dead	DAY ON TEST: 707 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Prostate		Inflammation	Chronic Active, Moderate
Salivary Glands	Artery	Mineralization	Mild
Skin		Abscess	Marked
		Mineralization	Moderate
Note: ABSCESS	TGLs = 1-11		
Stomach	Forestomach	Mineralization	Marked
	Glandular	Mineralization	Marked
Note: MINERALIZATION	TGLs = 8-6		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-10		
Thyroid Gland			
Note: GROSSLY ENLARGED THYROID PROBABLY WAS PARATHYROID.			
Urinary Bladder		Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 584

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pharynx	Palate	Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 1-11			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Mineralization	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PAPILOMA ON PALATE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 669
DOSE: 0 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Preputial Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Intestine Large	Cecum	Leukemia Mononuclear	
Intestine Small	Duodenum	Leukemia Mononuclear	
	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Marked
Note: NECROSIS TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-11			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Thrombosis	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35	TRT#: 1	SEX: Male	DAY ON TEST: 669
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 4-7		Leukemia Mononuclear	
Prostate			Inflammation	Chronic Active, Moderate
Skin			Inflammation	Necrotizing, Acute, Minimal
Note: INFLAMMATION	TGLs = 1-12			
Note: INFLAMMATION ON PREPUCE DUE TO PROLAPSED PENIS.				
Spleen			Fibrosis	Moderate
			Leukemia Mononuclear	
[Fibrosis TGLS = 3-1]				
Testes		Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-10			
Thymus			Leukemia Mononuclear	
Thyroid Gland		C Cell	Hyperplasia	Minimal
Urinary Bladder			Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 542

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Thyroid Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 37

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Moribund

DAY ON TEST: 458
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Moderate
		Leukemia Mononuclear	
Note: INFARCT	TGLs = 4,5-5		
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-1]		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-10		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Urinary Bladder		Hemorrhage	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 696

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Moderate
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Moderate
Intestine Large	Rectum	Mineralization	Moderate
	Cecum	Thrombosis	
Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Moderate
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 3-1		
Liver		Basophilic Focus	
Lung		Mineralization	Mild
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Marked
Stomach	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 696

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1,2-7

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 690

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

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
Lymph Node - Mandibular	Lymph Node - Mesenteric	Salivary Glands	Skin
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Mild
Kidney		Mineralization	Moderate
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-1		
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
		Mineralization	Mild
Lymph Node			
Note: ENLARGED MESENTERIC LN WITHIN NORMAL LIMITS ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Moderate
Pancreas		Inflammation	Chronic Active, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-6		
Preputial Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-9		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 690 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Minimal
Stomach	Glandular	Mineralization	Moderate
	Forestomach	Ulcer	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3,4-7		

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 379

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Moderate
		Leukemia Mononuclear	
Note: INFARCT	TGLs = 3-5		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: ANOM HEPAT LOB	TGLs = 1-11		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Nose		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-11		
Stomach	Glandular	Inflammation	Necrotizing, Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 40	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 379 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 41	TRT#: 1	SEX: Male	DAY ON TEST: 582
	DOSE: 0 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Intestine Small - Jejunum	Thymus
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OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Fatty Change	Minimal
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY NEOPLASM.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 619

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 42	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 619 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 548

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Moderate
Brain		Infarct	Mild
		Leukemia Mononuclear	
Eye		Leukemia Mononuclear	
Note: YELLOW EYES (ICTERUS) DUE TO LEUKEMIA.			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2-2+5+7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 43	TRT#: 1	SEX: Male	DAY ON TEST: 548
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: CYST	TGLs = 8-7		
Skin	Scapula	Inflammation	Necrotizing, Acute, Minimal
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-12		
Note: FIBROSIS	TGLs = 6-12		
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 5-10		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Eye	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Eye			
Note: PALE EYES WERE NORMAL ON MICRO.			
Heart		Degeneration	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 5-1]			
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Note: NO CAUSE FOR GRANULAR LIVER SEEN AT MICRO.			
Lung		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Stomach	Epithelium, Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 3,4-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Moribund

DAY ON TEST: 736
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth Note: INFLAMMATION TGLs = 2-8+9	Peridont Tiss	Inflammation	Suppurative, Marked
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PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PERIODONTAL INFLAMMATION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 596

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORIBUNDITY UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 585

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Eye
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Moderate
		Leukemia Mononuclear	
Note: INFARCT	TGLs = 4-5		
Eye			
Note: PALE EYES NORMAL ON MICRO.			
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pharynx		Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 46	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 585 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Leukemia Mononuclear	
Spleen		Inflammation	Chronic Active, Mild
Note: LEUKEMIA MONUC	TGLs = 1-12	Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-10	Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Trachea		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 548

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

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	Liver
Lung	Lymph Node - Mandibular	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Moderate
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA	TGLs = 1-11		
Spleen		Fibrosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY	TGLs = 2-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SUBQ SARCOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 48

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 744
HISTO:

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 - Mandibular	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 3-12		
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 1-11		
Nose	Mucosa	Inflammation	Suppurative, Minimal
	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 4-7		
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 744

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 669

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

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	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Sternal	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 49	TRT#: 1 DOSE: 0 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 669 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 50

TRT#: 1
DOSE: 0 MG/ML

SEX: Male
DISP: Dead

DAY ON TEST: 591
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2,3,4-1]			
Liver	Centrilobular	Necrosis	Minimal
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Inflammation	Necrotizing, Acute, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Prostate		Inflammation	Chronic Active, Moderate
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild
	Forestomach	Ulcer	Marked
Note: ULCER TGLs = 1-6			
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 675

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Pancreas
Salivary Glands	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 3-14		
Heart		Degeneration	Chronic, Moderate
		Mineralization	Mild
Intestine Large	Colon	Mineralization	Moderate
Kidney		Mineralization	Moderate
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 7-1+13		
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
	Artery, Mediastinum	Mineralization	Mild
		Mineralization	Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Mineralization	Mild
	Pars Distalis	Necrosis	Mild
Note: ADENOMA	TGLs = 4-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 61	TRT#: 3	SEX: Male	DAY ON TEST: 675
	DOSE: 50 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin	Scapula	Acanthosis	Minimal
	Scapula	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2-11+12			
Stomach	Glandular	Mineralization	Moderate
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 5-10			
Note: ADENOMA TGLs = 6-10			

PRIMARY CAUSE OF DEATH -

Animal Note: COD: NEPHROPATHY.

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 79

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Blood Vessel		Aneurysm	
Note: ANEURYSM	TGLs = 1-15		
Lung	Mediastinum	Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO ANEURYSM IN THORAX (TISSUE NOS ON GROSS).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 63 TRT#: 3 SEX: Male DAY ON TEST: 668
 DOSE: 50 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Pancreas	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Moderate
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
		Mineralization	Mild
Intestine Large	Colon	Mineralization	Mild
Kidney		Mineralization	Moderate
		Nephropathy	Chronic, Marked
	[Nephropathy TGLS = 5,6-1+13]		
Liver		Basophilic Focus	
		Fatty Change	Minimal
Lung		Inflammation	Chronic Active, Mild
	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Parathyroid Gland		Hyperplasia	Moderate
Skin	Back	Acanthosis	Minimal
	Scapula	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-4+11+12		
Stomach	Glandular	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 63	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 668 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes Note: ADENOMA TGLs = 3,4-10	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 64 TRT#: 3 SEX: Male DAY ON TEST: 596
DOSE: 50 MG/ML DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Pancreas
Preputial Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland	Thymus
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 2-7			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-11			
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 538

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Minimal
Skin	Scapula	Acanthosis	Minimal
Stomach	Epithelium, Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORIBUNDITY UNKNOWN; POSSIBLY GASTRIC LESIONS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 662

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Minimal
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Mild
Brain		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
Kidney	Renal Tubule	Hyperplasia	Mild
	Pelvis	Inflammation	Suppurative, Minimal
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
[Leukemia Mononuclear TGLs = 8-1]			
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Inflammation	Necrotizing, Acute, Marked
	Mesenteric	Inflammation	Necrotizing, Acute, Moderate
	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66	TRT#: 3	SEX: Male	DAY ON TEST: 662
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,6-5+13+14		
Nose	Mucosa	Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
	Mucosa	Thrombosis	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Skin	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-11+12		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-15		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-10		
Thymus		Inflammation	Necrotizing, Acute, Moderate
		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 642

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular
Nose	Prostate	Salivary Glands	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 6,7-1]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Marked
	Bile Duct	Hyperplasia	Minimal
Note: DEGEN TGLs = 5-12			
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Mild
	Back, Subcut Tiss	Fibroma	
	Scapula, Sebaceous GI	Hypertrophy	Mild
Note: FIBROMA TGLs = 1-11			
Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 4-1]			
Stomach	Epithelium, Forestomach	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 67	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 642 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes Note: ADENOMA TGLs = 2,3-10	Glandular Bilateral, Interstit Cell	Mineralization Adenoma	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 68 TRT#: 3 SEX: Male DAY ON TEST: 688
 DOSE: 50 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Nose	Preputial Gland	Salivary Glands	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Minimal
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Moderate
Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
Lymph Node	Mesenteric	Hemorrhage	Moderate
Note: ENLARGED MANDIBULAR LN NORMAL ON MICRO.			
Note: HEMORRHAGE TGLs = 8-15			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Moderate
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Back	Inflammation	Necrotizing, Acute, Minimal
		Inflammation	Necrotizing, Acute, Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 68	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 688 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Scapula	Squamous Cell Papilloma	
Note: SQUAM CEL CARC	TGLs = 1,2,3,4-11+12+13+14		
Note: SKIN INFLAMMATION ON INGUINAL (MAMMARY) SKIN.			
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 7-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY & INTESTINAL LESION.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 69	TRT#: 3	SEX: Male	DAY ON TEST: 571
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus	Trachea
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Moderate
Lung		Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
Note: SUSPECTED PRIMARY SITE IS LOWER ESOPHAGUS.			
Note: SQUAM CEL CARC TGLs = 1-3+11			
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Ulcer	Marked
Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO CARCINOMA IN THORAX (LUNGS).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 489

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Brain		Compression	
		Infarct	Moderate
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-7		
Prostate		Inflammation	Chronic Active, Minimal
Sem Ves			
Note: SEM VESICLES WITHIN NORMAL LIMITS ON MICRO.			
Skin	Scapula	Acanthosis	Minimal
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urin Bladder			
Note: FLUID IN BLADDER WAS URINE; BLADDER NORMAL ON MICRO.			

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY & BRAIN LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 743
DOSE: 50 MG/ML **DISP:** Terminal Sacrifice **HISTO:**

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 - Mandibular	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 9-1+16]			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
[Degeneration TGLS = 7-4]	Bile Duct	Hyperplasia	Moderate
Lung	Alveolar Epith	Hyperplasia	Minimal
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Mild
Note: ADENOCARC TGLs = 6-15			
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 8-7			
Note: ADENOMA TGLs = 8-7			
Prostate		Inflammation	Chronic Active, Minimal
Skin	Subcut Tiss	Hemangioma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71	TRT#: 3	SEX: Male	DAY ON TEST: 743
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMANGIOMA ON TAIL.

Note: HEMANGIOMA TGLs = 4-14

Note: SQUAM CEL CARC TGLs = 1,2,3-11+12+13

Testes Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5-10

Thyroid Gland C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
			[Nephropathy TGLS = 7-1]
Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
			Note: BROWN GRITTY FOCI ON CAPSULE NOT APPARENT ON MICRO.
Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mesenteric	Edema	Moderate
			Note: EDEMA TGLs = 8-11
			Note: ENLARGED MANDIBULAR LN WITHIN NORMAL LIMITS ON MICRO.
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
			Note: ADENOMA TGLs = 2-7
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 676 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Scapula, Sebaceous Gland	Hypertrophy	Minimal
Scapula	Squamous Cell Carcinoma	
Spleen	Fibrosis	Moderate
Thyroid Gland	Adenoma	
Tongue	Hyperplasia	Minimal
	Squamous Cell Papilloma	

Note: SQUAM CEL CARC TGLs = 1-11

[Fibrosis TGLS = 5-1]

Note: PAPILLOMA SQUA TGLs = 4-12

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY NEOPLASM.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 704

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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	Parathyroid Gland
Preputial Gland	Salivary Glands	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
Kidney	Renal Tubule	Hyperplasia	Minimal
	Pelvis	Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
	[Leukemia Mononuclear TGLS = 7-1]		
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-14]		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Note: LEUKEMIA MONUC TGLs = 1,5-5+7+11		
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Mucosa	Inflammation	Suppurative, Marked
Pancreas	Acinus	Atrophy	Mild
Pharynx		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 704 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 8-7		
Prostate		Inflammation	Chronic Active, Marked
Note: INFLAMMATION	TGLs = 4-12		
Skin		Acanthosis	Mild
		Scapula, Sebaceous GI	Minimal
Spleen		Hypertrophy	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-13		
Stomach		Mineralization	Mild
Testes			
Note: SMALL TESTES WITHIN NORMAL LIMITS ON MICRO.			

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 609

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Salivary Glands
Spleen	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Intestine Small - Ileum

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
		[Nephropathy TGLS = 4-1]	
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Necrotizing, Acute, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA			
TGLs = 2-7			
Preputial Gland		Squamous Cell Papilloma	
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Minimal
	Scapula	Cyst Epithelial Inclusion	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 609 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 1-11			
Stomach	Epithelium, Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 75	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 712 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular
Pancreas	Salivary Glands	Spleen	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 4-7			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Mild
Kidney	Renal Tubule	Hyperplasia	Minimal
	Pelvis	Inflammation	Suppurative, Mild
		Mineralization	Mild
		Nephropathy	Chronic, Marked
[Inflammation TGLS = 5-1]			
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Minimal
Lung		Inflammation	Chronic Active, Mild
	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Mild
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC TGLs = 6-2+3			
Lymph Node	Mesenteric	Edema	Mild
Note: ENLARGED MEDIASTINAL LN WITHIN NORMAL LIMITS ON MICRO.			
Note: EDEMA TGLs = 9-13			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 75	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 712 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Artery	Mineralization	Moderate
Nose	Mucosa	Inflammation	Suppurative, Marked
Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 7-7		
Pharynx		Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Skin	Scapula	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-11+12		
Stomach	Forestomach	Mineralization	Mild
	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-10		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY & SKIN NEOPLASIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 611
DOSE: 50 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Liposarcoma	
	Scapula	Squamous Cell Carcinoma	
Note: LIPOSARCOMA WAS ON LIP.			
Note: LIPOSARC TGLs = 2-11			
Note: SQUAM CEL CARC TGLs = 1-12			
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEOPLASM ON LIP.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 647

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Stomach - Glandular

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Thymus

OBSERVATIONS

Heart
Intestine Large
Kidney
 Note: NEPHROPATHY TGLs = 8-1
Liver
Lung
Preputial Gland
Skin

Cecum

Bile Duct

Scapula
Scapula, Sebaceous GI
Back
Scapula

Degeneration
Parasite Metazoan
Nephropathy

Hyperplasia
Inflammation
Inflammation
Acanthosis
Adenoma
Keratoacanthoma
Squamous Cell Carcinoma

Chronic, Mild

Chronic, Moderate

Minimal
Chronic Active, Mild
Chronic Active, Minimal
Mild

Multiple

Note: SQUAM CEL CARC TGLs = 2,3-12+13
Note: KERATOACANTHMA TGLs = 4-14
Note: ADENOMA TGLs = 1-11

Spleen
 Note: HEMA CELL PROL TGLs = 5-15

Testes
 Note: ADENOMA TGLs = 6,7-10

Thyroid Gland C Cell Adenoma Multiple

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 387

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Skin
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Prostate
Stomach - Forestomach
Trachea

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

OBSERVATIONS

Esophagus

Note: OBSTRUCTION WAS FOOD MATERIAL(AGONAL REGURGITATION).

Heart

Degeneration

Chronic, Minimal

Kidney

Nephropathy

Chronic, Mild

Liver

Bile Duct

Hyperplasia

Minimal

Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

Trachea

Note: OBSTRUCTION WAS NOT VISIBLE ON MICROSCOPIC EXAM.

Note: GREEN OBSTRUCTION WAS PROBABLY FOOD MATERIAL.

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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	Mammary Gland
Nose	Salivary Glands	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
Parathyroid Gland		Adenoma	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Squamous Cell Papilloma	
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3-11+12+13		
Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-14		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 695 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Epithelium, Forestomach Forestomach	Hyperplasia Inflammation	Minimal Chronic Active, Minimal
Testes Note: ADENOMA TGLs = 4,5-10	Bilateral, Interstit Cell	Adenoma	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 736
DOSE: 50 MG/ML **DISP:** Moribund **HISTO:**

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	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart	Atrium	Degeneration	Chronic, Mild
		Thrombosis	
Note: THROMBUS TGLs = 9-4			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Leukemia Mononuclear TGLS = 10-1]			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Thrombosis	
Note: LEUKEMIA MONUC TGLs = 11-4			
Lung		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2,3,4-11+12+13+14			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 736 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen Note: LEUKEMIA MONUC TGLs = 6-15		Leukemia Mononuclear	
Testes Note: CYST TGLs = 8-10 Note: ADENOMA TGLs = 7-10	Bilateral, Interstit Cell	Adenoma Cyst	
Thyroid Gland Note: CARCINOMA TGLs = 5-7	Follicular Cel C Cell	Carcinoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 722

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Pancreas	Preputial Gland	Salivary Glands
Spleen	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Degeneration	Chronic, Moderate
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 6-1+16		
Liver	Bile Duct	Hyperplasia	Mild
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA	TGLs = 5-15		
Nose	Mucosa	Inflammation	Suppurative, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Moderate
Skin	Scapula	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3,4-11+12+13+14+4		
Stomach	Glandular	Mineralization	Mild
	Forestomach	Ulcer	Moderate
Testes	Seminif Tub	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: MOST LIKELY NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 689

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Salivary Glands
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Epididymis		Mesothelioma Malignant	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Moderate
Kidney	Renal Tubule	Hyperplasia	Minimal
	Pelvis	Inflammation	Suppurative, Minimal
		Mineralization	Moderate
		Nephropathy	Chronic, Marked
	[Nephropathy TGLS = 6-1+13]		
Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
Note: FATTY CHANGE TGLs = 7-4			
Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Mild
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 82	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 689 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-7		
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Minimal
		Basal Cell Carcinoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 2-12		
Note: SQUAM CEL CARC	TGLs = 1-11		
Stomach	Glandular	Mineralization	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Note: ADENOMA	TGLs = 4,5-10		
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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	Mammary Gland
Nose	Parathyroid Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
	[Acanthosis TGLS = 3,4-11+12]		
Spleen		Leukemia Mononuclear	
	Note: LEUKEMIA MONUC TGLs = 2-1		
Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 84 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 674
DOSE: 50 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mandibular	Nose	Parathyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex, Medulla	Squamous Cell Carcinoma	Metastatic (Skin)
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Squamous Cell Carcinoma	Metastatic (Skin)
Brain		Squamous Cell Carcinoma	Metastatic (Skin)
Heart		Squamous Cell Carcinoma	Metastatic (Skin)
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC TGLs = 8,9-1 [Leukemia Mononuclear TGLS = 7-1]			
Liver	Bile Duct	Hyperplasia	Moderate
		Inflammation	Necrotizing, Acute, Moderate
		Leukemia Mononuclear	
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: INFLAMMATION TGLs = 10-16 Note: SQUAM CEL CARC TGLs = 4-16			
Lung		Leukemia Mononuclear	
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC TGLs = 5-2+3			
Lymph Node	Mediastinal, Mesenteric	Squamous Cell Carcinoma	Metastatic (Skin)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 84	TRT#: 3	SEX: Male	DAY ON TEST: 674
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC	TGLs = 6,15-2+13		
Mesentery		Squamous Cell Carcinoma	Metastatic (Skin)
Pancreas	Acinus	Atrophy	Mild
		Squamous Cell Carcinoma	Metastatic (Skin)
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 2-7		
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Salivary Glands		Necrosis	Moderate
		Squamous Cell Carcinoma	Metastatic (Skin)
Skeletal Muscle	Diaphragm, Intercostal	Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 3,16-11+12		
Skin	Scapula	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	
	Scapula	Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 1-14		
Spleen		Leukemia Mononuclear	
		Necrosis	Moderate
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 13-15		
Note: NECROSIS	TGLs = 14-15		
Note: LEUKEMIA MONUC	TGLs = 12-15		
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Minimal
	Glandular	Squamous Cell Carcinoma	Metastatic (Skin)
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 11-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO WIDESPREAD CARCINOMA FROM SKIN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 85	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 642 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Liver	Lymph Node - Mandibular
Mammary Gland	Preputial Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Inflammation	Suppurative, Minimal
Islets, Pancreatic		Adenoma	
Kidney		Mineralization	Mild
		Nephropathy	Chronic, Marked
	[Nephropathy TGLS = 4,5-1+12]		
Lung		Inflammation	Chronic Active, Mild
	Artery, Mediastinum	Mineralization	Mild
		Mineralization	Mild
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Scapula	Acanthosis	Minimal
	Scapula	Basal Cell Carcinoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

Note: BASAL CEL CARC TGLs = 2-4

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 85	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 642 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC	TGLs = 1,2-4+11		
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node - Mandibular	Nose
Pancreas	Salivary Glands	Spleen	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Degeneration	Chronic, Mild
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Mild
Note: INFLAMMATION TGLs = 7-6			
Note: JEJUNUM NORMAL ON MICRO.			
Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 4-1]			
Liver		Carcinoma	Metastatic (Islets, Pancreatic)
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 3-11			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC	TGLs = 1,2-12+13		
Stomach	Epithelium, Forestomach Forestomach Glandular	Hyperplasia Inflammation Inflammation	Mild Chronic Active, Mild Necrotizing, Acute, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-10		
Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia Pigmentation	Minimal Minimal Lipofuscin, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY & SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 373
DOSE: 50 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland Thymus

OBSERVATIONS

Intestine Large	Colon	Carcinoma	
	Rectum	Carcinoma	
Note: CARCINOMA TGLs = 4-6+11			
Kidney		Hydronephrosis	Marked
		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 1-1]			
Lymph Node	Mesenteric	Carcinoma	Metastatic (Intestine Large)
Note: CARCINOMA TGLs = 3-6			
Mesentery		Carcinoma	Metastatic (Intestine Large)
Note: CARCINOMA TGLs = 4-6+11			
Pancreas	Acinus	Atrophy	Mild
		Carcinoma	Metastatic (Intestine Large)
Note: CARCINOMA TGLs = 4-11			
Spleen			
Note: SMALL SPLEEN WAS WITHIN NORMAL LIMITS ON MICRO.			
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO CARCINOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 88 TRT#: 3 SEX: Male DAY ON TEST: 569
 DOSE: 50 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Pancreas	Salivary Glands	Spleen
Thymus	Trachea	Urinary Bladder	

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 5-7			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
		Mineralization	Mild
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Minimal
Kidney	Pelvis	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-1]			
Liver		Inflammation	Necrotizing, Acute, Mild
Note: REASON FOR GROSSLY PALE LIVER NOT SEEN ON MICRO.			
Nose	Mucosa	Inflammation	Suppurative, Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Inflammation	Chronic Active, Moderate
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88	TRT#: 3	SEX: Male	DAY ON TEST: 569
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	Minimal
Note: ADENOMA TGLs = 6-7			
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Moderate
		[Adenocarcinoma TGLS = 5-14]	
		[Hyperplasia TGLS = 4-13]	
Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 1-7]	
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
		[Squamous Cell Carcinoma TGLS = 2,3-11+12]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen [Leukemia Mononuclear TGLS = 6-15]		Leukemia Mononuclear	
Testes [Adenoma TGLS = 7-10]	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90 TRT#: 3 SEX: Male DAY ON TEST: 542
DOSE: 50 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lung	Lymph Node - Mandibular	Nose
Parathyroid Gland	Preputial Gland	Salivary Glands	Spleen
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Stomach	Forestomach	Ulcer	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 404

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea		

MISSING

Thymus

OBSERVATIONS

Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Mild
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 4-12		
Lung		Infarct	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Spleen		Hemorrhage	Chronic, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-11		
Note: HEMORRHAGE	TGLs = 2,3-11		
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 404

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Hemorrhage

Moderate

Note: HEMORRHAGE TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Salivary Glands	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
Blood Vessel	Aorta	Mineralization	Moderate
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Mild
Note: FIBRINOUS LESION NOT APPARENT ON MICRO;MAY'VE BEEN CLOT			
Intestine Large	Rectum	Mineralization	Moderate
Intestine Small	Ileum	Inflammation	Necrotizing, Acute, Moderate
Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Moderate
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1+13			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Moderate
		Mineralization	Mild
Lymph Node	Mesenteric	Edema	Moderate
Note: EDEMA TGLs = 6-12			
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery	Artery	Mineralization	Moderate
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92	TRT#: 3	SEX: Male	DAY ON TEST: 676
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1-4+11			
Spleen		Fibrosis	Mild
Stomach	Forestomach	Mineralization	Marked
	Glandular	Mineralization	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
	Note: ADENOMA TGLs = 3-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
Heart	Atrium	Degeneration	Chronic, Mild
Note: THROMBUS TGLs = 3-4		Thrombosis	
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Moderate
Note: INFLAMMATION TGLs = 4-6			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1,2-1+16			
Liver	Bile Duct	Fatty Change	Mild
	Centrilobular	Hyperplasia	Mild
Note: NECROSIS TGLs = 5-4		Necrosis	Moderate
Note: FATTY CHANGE TGLs = 5-4			
Lung			
Note: CAUSE OF PALE LUNGS NOT SEEN AT MICRO.			
Mammary Gland		Hyperplasia	Cystic, Mild
Skin	Scapula	Acanthosis	Mild
	Back	Squamous Cell Carcinoma	
	Scapula	Squamous Cell Carcinoma	Multiple
	Scapula	Squamous Cell Papilloma	
Note: SQUAM CEL CARC TGLs = 8,10,11-12+14+15			
Note: ACANTHOSIS TGLs = 9-13			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 93	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 736 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: PAPANILLOMA SQUA	TGLs = 7-11		
Spleen		Fibrosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 12-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tooth	Peridont Tiss	Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SKIN LESIONS & NEPHROPATHY.

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 94 TRT#: 3 SEX: Male DAY ON TEST: 674
 DOSE: 50 MG/ML DISP: Dead HISTO:

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	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Hepatocyte	Regeneration	Marked
Note: LEUKEMIA MONUC TGLs = 2-4+13			
Note: REGENERATION TGLs = 5-13			
Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Dead	DAY ON TEST: 674 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 6-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 95 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 743
DOSE: 50 MG/ML **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-7]			
Preputial Gland	Duct	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
[Squamous Cell Carcinoma TGLS = 1,2,3,4-11+12+13+14]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-10]			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 689

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Pituitary Gland
Salivary Glands	Spleen	Thymus	Thyroid Gland
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Marked
		Mineralization	Moderate
Intestine Large	Colon	Mineralization	Moderate
	Rectum	Mineralization	Moderate
Intestine Small	Duodenum	Mineralization	Mild
Kidney		Mineralization	Marked
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 8-1+15		
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Mild
	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Moderate
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: MINERALIZATION	TGLs = 6-2		
Lymph Node	Mesenteric	Edema	Mild
Note: ENLARGED MANDIBULAR LN WITHIN NORMAL LIMITS ON MICRO.			
Note: EDEMA	TGLs = 5-14		
Mesentery	Artery	Mineralization	Moderate
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 689 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Minimal
	Back, Sebaceous GI	Hypertrophy	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Keratoacanthoma	
	Scapula	Squamous Cell Carcinoma	Multiple
Note: KERATOACANTHMA	TGLs = 2-12		
Note: SQUAM CEL CARC	TGLs = 1,2,3-11+12+13		
Stomach	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 7-10		
Trachea		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY & SKIN LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 389 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 2-10+11			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PROSTATIC INFLAMMATION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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	Nose	Preputial Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Squamous Cell Carcinoma	Metastatic (Skin)
		[Squamous Cell Carcinoma TGLS = 3,4-2+3+13]	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
		Note: HYPERPLASIA TGLs = 2-12	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 5-7]	
Prostate		Inflammation	Chronic Active, Moderate
Skin		Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	
		[Squamous Cell Carcinoma TGLS = 1-11]	
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 467

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Preputial Gland
Stomach - Glandular

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Spleen
Trachea

OBSERVATIONS

Brain
Heart
Kidney
Liver
Mammary Gland
Pancreas
Pituitary Gland
 Note: ADENOMA TGLs = 1-7
Prostate
Skin
Testes
Thyroid Gland

Bile Duct
Acinus
Pars Distalis

Scapula
Interstit Cell
C Cell

Compression
Degeneration
Nephropathy
Hyperplasia
Hyperplasia
Atrophy
Adenoma

Inflammation
Acanthosis
Hyperplasia
Hyperplasia

Chronic, Minimal
Chronic, Mild
Minimal
Cystic, Mild
Minimal

Chronic Active, Moderate
Minimal
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 626

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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 - Mandibular	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
[Leukemia Mononuclear TGLs = 4-1]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 5-7			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-11			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Note: ADENOMA TGLs = 3-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 626

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Minimal

Note: NO REASON FOR "SMALL" THYROID APPARENT ON MICRO.

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular
Nose	Pancreas	Salivary Glands	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Eye		Degeneration	Moderate
[Degeneration TGLS = 1-13]			
Heart		Degeneration	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 6-1]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Mammary Gland		Hyperplasia	Cystic, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Mild
	Back, Sebaceous GI	Adenoma	
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-12]			
[Squamous Cell Carcinoma TGLS = 2-11]			
Stomach	Forestomach	Ulcer	Marked
[Ulcer TGLS = 5-14]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 689

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 7-1			
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4	Centrilobular	Necrosis	Moderate
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-7			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 689 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1-11		
Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
		Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 5-12		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-10		
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 538

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Eye	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	Prostate
Salivary Glands	Skin	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: EYE YELLOW DUE TO LEUKEMIA; NOT VISIBLE ON MICRO.			
Heart		Degeneration	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-7		
Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION	TGLs = 4-10		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-11		
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103

TRT#: 3
DOSE: 50 MG/ML

SEX: Male
DISP: Moribund

DAY ON TEST: 538
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Forestomach	Inflammation	Chronic Active, Minimal
Thymus	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 576

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Preputial Gland	Trachea	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 5-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,2,3-5+7+11+12		
Parathyroid Gland		Hypertrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Prostate		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 104	TRT#: 3 DOSE: 50 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 576 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Scapula	Acanthosis	Mild
Spleen		Leukemia Mononuclear Necrosis	Marked
Note: LEUKEMIA MONUC TGLs = 4-13			
Stomach	Glandular Forestomach	Inflammation Leukemia Mononuclear	Necrotizing, Acute, Minimal
Testes	Interstit Cell	Hyperplasia Leukemia Mononuclear	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
		Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
	Scapula	Squamous Cell Papilloma	
[Acanthosis TGLS = 1,2,3-11+12+13]			
[Hypertrophy TGLS = 4-14]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106	TRT#: 3	SEX: Male	DAY ON TEST: 744
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

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 - Mandibular	Nose	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-7		
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Mild
	Subcut Tiss	Fibroma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
[Squamous Cell Carcinoma TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 718

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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	Parathyroid Gland
Preputial Gland	Salivary Glands	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart	Atrium	Degeneration	Chronic, Mild
Note: THROMBUS TGLs = 7-4		Thrombosis	
Kidney		Leukemia Mononuclear	
Note: NEPHROPATHY TGLs = 6-1		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4	Centrilobular	Necrosis	Marked
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 718

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 1-11	Scapula	Squamous Cell Carcinoma	
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild
	Forestomach	Ulcer	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4-10			
PRIMARY CAUSE OF DEATH	-		
Animal Note: MORIBUND DUE TO LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 613

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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
Liver	Lung	Lymph Node - Mandibular	Nose
Pancreas	Prostate	Salivary Glands	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 4-1]			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-7		
Preputial Gland		Inflammation	Chronic Active, Minimal
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Mild
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Back	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-10		
Stomach	Forestomach	Ulcer	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 613

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Moderate
Intestine Large	Colon	Parasite Metazoan	
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: ENLARGED MANDIBULAR LN NORMAL ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-11			
Testes	Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Tooth	Peridont Tiss	Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MORIBUND DUE TO PITUITARY & SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 427

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: ENLARGED MANDIBULAR LN NORMAL ON MICRO.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 612

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 9-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10,13-2+11		
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 5-7		
Prostate		Inflammation	Chronic Active, Mild
Skin	Back	Acanthosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121

TRT#: 5
DOSE: 100 MG/ML

SEX: Male
DISP: Moribund

DAY ON TEST: 612
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Scapula
Back, Sebaceous GI
Scapula, Sebaceous GI
Back
Scapula

Acanthosis
Hypertrophy
Hypertrophy
Squamous Cell Carcinoma
Squamous Cell Carcinoma

Mild
Minimal
Mild

Note: SQUAM CEL CARC TGLs = 2,3,4-12
Spleen

Abscess
Fibrosis
Leukemia Mononuclear

Marked
Mild

Note: LEUKEMIA MONUC TGLs = 8-13+14

Note: FIBROSIS TGLs = 11-14

Note: ABSCESS TGLs = 12-13

Testes

Interstit Cell
Seminif Tub

Adenoma
Atrophy

Moderate

Note: ADENOMA TGLs = 7-10

Note: ATROPHY TGLs = 6-10

Thyroid Gland
Zymbal's Gland

C Cell

Hyperplasia
Adenoma

Mild

Note: ADENOMA TGLs = 1-15

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 609

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Parathyroid Gland	Preputial Gland	Salivary Glands
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Moderate
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 1-7		
Prostate		Inflammation	Chronic Active, Mild
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Mild
		Cyst Epithelial Inclusion	Multiple
	Back, Sebaceous GI	Hypertrophy	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 609

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Scapula	Squamous Cell Carcinoma	
Note: CYST WAS ON TAIL. Note: CYST EPITH INC TGLs = 3-11			
Spleen [Leukemia Mononuclear TGLS = 2-1]		Leukemia Mononuclear	
Stomach	Epithelium, Forestomach Forestomach	Hyperplasia Inflammation	Minimal Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: MORIBUND DUE TO LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 628

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Lung
Lymph Node - Mandibular	Preputial Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-7		
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Moderate
Note: ACANTHOSIS	TGLs = 1,2-4		
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Adenoma	
Note: ADENOMA	TGLs = 3-7		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 124 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 691
DOSE: 100 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Intest Small			
Note: THICKENED LESION OF DUODENUM/JEJUNUM NOT SEEN.			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 5-6			
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Moderate
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1-8			
Note: ACANTHOSIS TGLs = 2-9			
Stomach	Forestomach	Ulcer	Marked
Note: ULCER TGLs = 7-6			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MORIBUND DUE TO GASTRIC LESIONS & PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 441

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Lung
Parathyroid Gland
Skin
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Lymph Node - Mandibular
Preputial Gland
Testes

Bone
Esophagus
Mammary Gland
Prostate
Thymus

Bone Marrow
Liver
Nose
Salivary Glands
Trachea

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Stomach - Glandular

Intestine Large - Colon
Intestine Small - Jejunum
Pituitary Gland
Thyroid Gland

Intestine Large - Rectum
Islets, Pancreatic
Spleen

Intestine Small - Duodenum
Kidney
Stomach - Forestomach

OBSERVATIONS

Heart

Degeneration

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: FLUID IN CAVITIES DUE TO PM AUTOLYSIS.

Animal Note: GREEN MATERIAL IN ORAL CAVITY WAS INGESTA.

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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
Lymph Node - Mandibular	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney	Pelvis	Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 9-1		
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
		Mineralization	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA	TGLs = 6-13		
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 10-5+6		
Prostate		Inflammation	Chronic Active, Marked
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
		Inflammation	Necrotizing, Acute, Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: ACUTE NECR INFLAMM IS OF PREPUCE D T PROLAPSED PENIS.			
Note: INFLAMMATION	TGLs = 7-14		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 1,2,3,4,5-8+9+10+11+12

Spleen

Fibrosis

Mild

Leukemia Mononuclear

[Fibrosis TGLS = 8-15]

Testes

Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SKIN MASSES, LEUKEMIA, & PITUITARY ADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Liver	Lung	Lymph Node - Mandibular
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: ACANTHOSIS TGLs = 2-12			
Note: SQUAM CEL CARC TGLs = 1,3-11+13			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 4-10			

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY LESIONS & SKIN MASSES.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 593

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Preputial Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Trachea

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Mild
Brain		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Penis		Inflammation	Necrotizing, Acute, Moderate
Note: INFLAMMATION	TGLs = 2-13		
Pituitary Gland		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 593

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Scapula, Sebaceous Gland
Scapula

Hypertrophy
Squamous Cell Carcinoma

Minimal

Note: SQUAM CEL CARC TGLs = 1-11

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-12

Testes

Bilateral, Interstit Cell

Adenoma

Leukemia Mononuclear

Note: ADENOMA TGLs = 3-10

Thymus

Leukemia Mononuclear

Thyroid Gland

Leukemia Mononuclear

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 577

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Liver
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Lung
Prostate
Stomach - Glandular

Bone
Esophagus
Lymph Node - Mandibular
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Rectum
Parathyroid Gland
Spleen
Trachea

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Jejunum

Intestine Large - Colon
Pancreas

Intestine Small - Duodenum
Thyroid Gland

Intestine Small - Ileum

OBSERVATIONS

Heart
Islets, Pancreatic
Kidney
Mammary Gland
Nose
Pituitary Gland
Note: ADENOMA TGLs = 1-7
Skin
Testes

Mucosa
Pars Distalis

Scapula
Scapula, Sebaceous GI
Interstit Cell

Degeneration
Hyperplasia
Nephropathy
Hyperplasia
Inflammation
Adenoma

Acanthosis
Hypertrophy
Adenoma

Chronic, Mild
Mild
Chronic, Mild
Cystic, Mild
Suppurative, Mild

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 612

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Kidney	Pelvis	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Moderate
[Inflammation TGLS = 5-1]			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-7		
Prostate		Inflammation	Chronic Active, Mild
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 2,3-11+12		
Note: CAUSE OF YELLOW SCALEY SKIN NOT SEEN AT MICRO.			
Stomach	Forestomach	Ulcer	Marked
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 394

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Brain		Compression	
Harderian Gland			
Note: ENLARGED HARDERIAN NORMAL ON MICRO.			
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous Gland	Hypertrophy	Minimal
Testes	Interstitial Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 590

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Liver	Lung	Lymph Node - Mandibular
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Kidney		Nephropathy	Chronic, Mild
Liver			
Note: CAUSE OF PALE LIVER NOT SEEN AT MICRO.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
		Inflammation	Necrotizing, Acute, Moderate
Note: ACUTE NECR INFLAM WAS ON PREPUCE DUE TO PROLAPSED PENIS.			
Note: ACANTHOSIS TGLs = 4-4			
Note: INFLAMMATION TGLs = 1-11			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 503

DOSE: 100 MG/ML

DISP: Drowned

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Intestine Small - Ileum	Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Nose	Mucosa	Inflammation	Suppurative, Moderate
Note: MUCH FOREIGN MATL (BEDDING,FOOD,HAIR) IN NASAL CAVITY.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: DROWNING; FOUND DEAD IN WATER IN CAGE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 642

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-1		
Liver		Basophilic Focus	
		Inflammation	Necrotizing, Acute, Mild
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-7		
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Minimal
	Back, Sebaceous GI	Hypertrophy	Mild
	Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-11		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-10		

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO SKIN TUMOR & PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 568

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-4		
Lung		Leukemia Mononuclear	
		Thrombosis	
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-7		
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Moderate
	Nasolacrim Dct	Inflammation	Suppurative, Marked
	Mucosa	Thrombosis	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 1-7		
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 2-10		
Prostate		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135	TRT#: 5	SEX: Male	DAY ON TEST: 568
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-11		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Colon

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Mild
	Back, Sebaceous GI	Hypertrophy	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-8+9		
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY	TGLs = 3-7		
Note: ADENOMA	TGLs = 3,4-7		

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 350

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Rectum	Liver
Lymph Node - Mandibular	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea			

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Thyroid Gland
Urinary Bladder			

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM MAL TGLs = 1-11	Medulla	Pheochromocytoma Malignant	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Skin	Back	Acanthosis	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD{: MALIGNANT PHEOCHROMOCYTOMA W/METASTASES TO LUNGS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:25
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 138 TRT#: 5 SEX: Male DAY ON TEST: 668
 DOSE: 100 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Liver	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 4-14		
Heart		Degeneration	Chronic, Mild
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
	Scapula	Squamous Cell Papilloma	
Note: SQUAM CEL CARC	TGLs = 1,3-11+13		
Note: PAPILLOMA SQUA	TGLs = 2-12		
Stomach	Forestomach	Ulcer	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORIBUNDITY UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 609

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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 - Mandibular	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Necrotizing, Acute, Mild
Note: INFLAMMATION	TGLs = 6-4		
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3-11+12+13+14		
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 5-1		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SKIN NEOPLASIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 638

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular	Parathyroid Gland
Salivary Glands	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Moderate
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Mild
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 1-12		
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 8-4		
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: ANOM HEPAT LOB	TGLs = 7-14		
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-15		
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Mucosa	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 140	TRT#: 5 DOSE: 100 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 638 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin	Scapula	Leukemia Mononuclear	
	Scapula, Sebaceous GI	Acanthosis	Mild
	Scapula	Hypertrophy	Mild
		Squamous Cell Carcinoma	
Note: ACANTHOSIS	TGLs = 4-4		
Note: SQUAM CEL CARC	TGLs = 2-11		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-13		
Stomach	Glandular	Inflammation	Necrotizing, Acute, Minimal
	Forestomach	Ulcer	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-10		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 2-12		
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney	Renal Tubule	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Leukemia Mononuclear TGLS = 6-1]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141	TRT#: 5	SEX: Male	DAY ON TEST: 718
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland Note: ADENOMA TGLs = 7-7	Pars Distalis	Adenoma	
Preputial Gland		Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin Note: SQUAM CEL CARC TGLs = 1-11	Scapula	Squamous Cell Carcinoma	
Spleen [Leukemia Mononuclear TGLS = 3-1]		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 4-10	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA & SKIN NEOPLASIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 100 MG/ML

DISP: Dead

HISTO:

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	Lung
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Spleen	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney	Pelvis	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: ENLARGED MOTTLED MANDIB LN NORMAL ON MICRO.			
Mesentery		Inflammation	Necrotizing, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Prostate		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 8-10			
Skin	Scapula	Acanthosis	Mild
	Scapula	Basal Cell Adenoma	
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: BASAL CEL ADEN TGLs = 4-14			
Note: SQUAM CEL CARC TGLs = 1,2,3-11+12+13			
Stomach	Forestomach	Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 142	TRT#: 5	SEX: Male	DAY ON TEST: 668
	DOSE: 100 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER	TGLs = 5-6		
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: COMBINATION OF GASTRIC, PITUITARY & SKIN LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 4-14		
Heart		Degeneration	Chronic, Mild
Islets, Pancreatic		Adenoma	
Kidney		Mineralization	Mild
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY SITE OF CARCINOMA WAS ZYMBALS GLAND.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula	Cyst Epithelial Inclusion	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: CYST EPITH INC	TGLs = 2-11		
Note: SQUAM CEL CARC	TGLs = 3-12		
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-10

Thyroid Gland C Cell

Zymbal's Gland

Hyperplasia

Minimal

Carcinoma

Note: CARCINOMA TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO ZYMBALS TUMOR.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 144 TRT#: 5 SEX: Male DAY ON TEST: 659
DOSE: 100 MG/ML DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Small - Duodenum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Adenoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 2,3-12+13			
Note: ADENOMA TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 145

TRT#: 5

DOSE: 100 MG/ML

SEX: Male

DISP: Dead

DAY ON TEST: 629

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Epididymis
Islets, Pancreatic
Parathyroid Gland
Stomach - Forestomach

Bone
Esophagus
Lung
Pituitary Gland
Stomach - Glandular

Bone Marrow
Intestine Large - Rectum
Lymph Node - Mandibular
Preputial Gland
Thymus

Brain
Intestine Small - Duodenum
Mammary Gland
Salivary Glands
Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Thyroid Gland

Intestine Large - Colon
Trachea

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Note: NEPHROPATHY TGLs = 5-1
Liver

Cortex
Bile Duct

Hyperplasia
Degeneration
Nephropathy
Fatty Change
Hyperplasia

Minimal
Chronic, Mild
Chronic, Mild
Minimal
Minimal

Note: REDNESS & GRITTY CAPSULE DUE TO PMA & POOLED BLOOD.

Nose
Pancreas
Prostate
Skin

Mucosa
Acinus
Scapula
Scapula, Sebaceous GI
Scapula

Inflammation
Atrophy
Inflammation
Acanthosis
Hypertrophy
Squamous Cell Carcinoma

Suppurative, Mild
Minimal
Chronic Active, Minimal
Moderate
Minimal
Multiple

Note: SQUAM CEL CARC TGLs = 1,2-11+12

Spleen
Testes

Interstit Cell
Seminif Tub

Fibrosis
Adenoma
Atrophy

Mild
Moderate

Note: ADENOMA TGLs = 3-10

Note: ATROPHY TGLs = 4-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 629

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 242

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Esophagus		Inflammation	Necrotizing, Acute, Moderate
Intestine Small	Duodenum	Adenocarcinoma	
Note: ADENOCARC	TGLs = 3-10		
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Necrosis	Mild
Note: NECROSIS	TGLs = 2-3		
Lung	Pleura	Inflammation	Suppurative, Moderate
Stomach			
Note: ENLARGED PALE STOMACH NORMAL ON MICRO.			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: THORACIC FLUID DUE TO PLEURAL INFLAMMATION ALSO.

Animal Note: MORIBUND DUE TO INTESTINAL NEOPLASM & PLEURAL INFLAMMATION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 550

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Stomach - Forestomach	Thymus	Trachea

MISSING

Esophagus	Parathyroid Gland
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INSUFFICIENT TISSUE

Epididymis

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Intestine Large	Cecum	Mesothelioma Malignant	
	Colon	Mesothelioma Malignant	
	Rectum	Mesothelioma Malignant	
	Rectum	Parasite Metazoan	
Intestine Small	Duodenum	Mesothelioma Malignant	
	Ileum	Mesothelioma Malignant	
	Jejunum	Mesothelioma Malignant	
Kidney		Mesothelioma Malignant	
		Nephropathy	Chronic, Mild
Note: MESOTHELIO MAL TGLs = 7-1			
Liver		Basophilic Focus	
Note: CAUSE OF GRANULAR APPEARANCE NOT SEEN ON MICRO.			
Lymph Node			
Note: MEDIASTINAL LN WITHIN NORMAL LIMITS.			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 2-6+7+10+11			
Pancreas	Acinus	Atrophy	Mild
		Mesothelioma Malignant	
Skin	Scapula	Acanthosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147	TRT#: 5	SEX: Male	DAY ON TEST: 550
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Scapula, Sebaceous GI	Hypertrophy	Minimal
Stomach	Glandular	Mesothelioma Malignant	
Testes	Bilateral, Interstit Cell	Mesothelioma Malignant	
		Adenoma	
		Mesothelioma Malignant	
Note: ADENOMA TGLs = 3,4-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO MESOTHELIOMA.

Animal Note: ABDOMINAL FLUID DUE TO MESOTHELIOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 148 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 595
DOSE: 100 MG/ML **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Small - Duodenum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung			
Note: MOTTLED LUNGS DUE TO PM POOLING OF BLOOD.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin	Scapula	Acanthosis	Mild
	Scapula	Basal Cell Carcinoma	
	Scapula	Basal Cell Carcinoma	Metastatic (Skin)
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
	Scapula	Squamous Cell Papilloma	
Note: SQUAM CEL CARC TGLs = 3-12			
Note: BASAL CEL CARC TGLs = 1-13			
Note: PAPILLOMA SQUA TGLs = 2-11			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 595

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
	Atrium	Thrombosis	
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Thrombosis	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA			
TGLs = 8-7			
Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 149	TRT#: 5 DOSE: 100 MG/ML	SEX: Male DISP: Moribund	DAY ON TEST: 668 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Back, Sebaceous GI	Hypertrophy	Minimal
Scapula, Sebaceous GI	Hypertrophy	Mild
Scapula	Squamous Cell Carcinoma	Multiple

Note: SQUAM CEL CARC TGLs = 1,2,3,4,5-11+12+13+14+15

Spleen [Leukemia Mononuclear TGLS = 6-1] Leukemia Mononuclear

Testes Bilateral, Interstit Cell Adenoma

Note: ADENOMA TGLs = 7-10

Thyroid Gland C Cell Hyperplasia Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA & PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:26
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 150 TRT#: 5 SEX: Male DAY ON TEST: 558
 DOSE: 100 MG/ML DISP: Moribund HISTO:

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	Lymph Node - Mandibular
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 7-1		
Liver		Fatty Change	Mild
Lung	Pleura	Inflammation	Suppurative, Marked
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION	TGLs = 2,3,4,5,6-1+6+7+12		
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 8-7		
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-11		
Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO INFLAMMATION IN MESENTERY & PLEURA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 558

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF INFLAMMATION IN MESENTERY AND PLEURA UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Pancreas
Salivary Glands	Spleen	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Moderate
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Ductus Deferens		Mineralization	Moderate
Epididymis		Mineralization	Moderate
Heart		Degeneration	Chronic, Moderate
		Mineralization	Moderate
Kidney		Mineralization	Moderate
		Nephropathy	Chronic, Marked
			[Nephropathy TGLS = 5-1]
Liver		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Minimal
		Mineralization	Mild
Nose	Mucosa	Inflammation	Suppurative, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA			TGLs = 6-7
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA			TGLs = 4-7
Preputial Gland		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151	TRT#: 5	SEX: Male	DAY ON TEST: 740
	DOSE: 100 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Moderate
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
	Scapula	Squamous Cell Papilloma	
	Note: SQUAM CEL CARC TGLs = 1,2-11+12 Note: PAPILLOMA SQUA TGLs = 3-13		
Stomach	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Marked
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Islets, Pancreatic
Parathyroid Gland	Preputial Gland	Trachea	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Moderate
		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Intestine Small	Duodenum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: NECROSIS	TGLs = 3-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 1-11		
Nose		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Leukemia Mononuclear Inflammation	Chronic Active, Minimal
Salivary Glands		Leukemia Mononuclear	
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Leukemia Mononuclear Squamous Cell Carcinoma	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
	Forestomach	Ulcer	Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 4-10			
Note: LEUKEMIA MONUC TGLs = 4-10			
Thyroid Gland		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: COD: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 153

TRT#: 5

SEX: Male

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

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
Lung	Lymph Node - Mandibular	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Parathyroid Gland		Adenoma	
Preputial Gland		Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
Note: HYPERPLASIA	TGLs = 5-15		
Note: INFLAMMATION	TGLs = 5-10+15		
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Mild
		Acanthosis	Minimal
	Scapula	Basal Cell Adenoma	
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: BASAL CEL ADEN	TGLs = 3-13		
Note: SQUAM CEL CARC	TGLs = 1,2-11+12		
Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 153	TRT#: 5	SEX: Male	DAY ON TEST: 743
	DOSE: 100 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS	TGLs = 4-1+14		
Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 6-10		
Thyroid Gland		C Cell	Adenoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 725
DOSE: 100 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Nose	Pancreas	Salivary Glands	Thymus
Trachea	Urinary Bladder		

MISSING

Intestine Small - Ileum	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Necrosis	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Parasite Metazoan	
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 7-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 2-7		
Preputial Gland		Hyperplasia	Moderate
Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154	TRT#: 5	SEX: Male	DAY ON TEST: 725
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Scapula	Acanthosis	Mild
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-11			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
		Necrosis	Moderate
Note: LEUKEMIA MONUC TGLs = 3-12			
Note: FIBROSIS TGLs = 4-12			
Stomach	Glandular	Inflammation	Necrotizing, Acute, Minimal
	Forestomach	Ulcer	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5,6-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA & SKIN NEOPLASM.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 613

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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	Nose
Preputial Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye		Degeneration	Mild
Note: DEGEN	TGLs = 1-11		
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Note: LEUKEMIA MONUC	TGLs = 8-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 613

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 6-7			
Prostate			Inflammation	Chronic Active, Minimal
Skin		Scapula	Acanthosis	Minimal
		Scapula, Sebaceous GI	Hypertrophy	Minimal
		Scapula	Squamous Cell Carcinoma	Multiple
		Scapula	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 5-15			
Note: SQUAM CEL CARC	TGLs = 2,3,4-12+13+14			
Spleen			Fibrosis	Mild
			Leukemia Mononuclear	
			Necrosis	Minimal
Note: LEUKEMIA MONUC	TGLs = 7-16			
Testes		Interstit Cell	Adenoma	
Thyroid Gland		C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH		-		
Animal Note: MORIBUND DUE TO LEUKEMIA.				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 156	TRT#: 5	SEX: Male	DAY ON TEST: 550
	DOSE: 100 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Brain	Nose	Pituitary Gland	
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Thyroid Gland			

OBSERVATIONS

Heart		Degeneration	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-4		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Parathyroid Gland
Preputial Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 6-1]			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-6		
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Mild
	Scapula	Basal Cell Adenoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3,4-8+9+10+11		
Note: BASAL CEL ADEN	TGLs = 1-8		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-7		
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD: PITUITARY LESIONS & SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 158	TRT#: 5	SEX: Male	DAY ON TEST: 662
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Parathyroid Gland	Preputial Gland	Salivary Glands
Stomach - Forestomach	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Mild
		Leukemia Mononuclear	
Eye		Degeneration	Moderate
		Leukemia Mononuclear	
Note: DEGEN	TGLs = 1-13		
Heart		Degeneration	Chronic, Minimal
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Edema	Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Septum	Necrosis	Marked
	Mucosa	Thrombosis	
Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 662

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Inflammation	Necrotizing, Acute, Mild
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 2-11		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-12		
Stomach	Glandular	Inflammation	Necrotizing, Acute, Moderate
Note: INFLAMMATION	TGLs = 6-6		
Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 4,5-10		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 612

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Salivary Glands	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Moderate
		Mineralization	Minimal
Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 8-1 Lymph Node Note: ENLARGED RED MESEN LN NORMAL ON MICRO.			
Mesentery	Artery	Mineralization	Moderate
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Moderate
	Back, Sebaceous GI	Hypertrophy	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159	TRT#: 5	SEX: Male	DAY ON TEST: 612
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Scapula	Keratoacanthoma	
Scapula	Squamous Cell Carcinoma	Multiple
	Squamous Cell Papilloma	

Note: KERATOACANTHMA TGLs = 6-15

Note: KERATOACANTHOMA WAS NEAR PENIS BUT NOT ON IT.

Note: PAPILLOMA SQUA TGLs = 4-13

Note: ACANTHOSIS TGLs = 1-4

Note: SQUAM CEL CARC TGLs = 2,3,5-11+12+14

Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 7-10

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO NEPHROPATHY.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 548

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Lung
Pituitary Gland
Thymus

Adrenal Gland - Medulla
Epididymis
Lymph Node - Mandibular
Preputial Gland
Trachea

Bone
Esophagus
Mammary Gland
Salivary Glands
Urinary Bladder

Bone Marrow
Liver
Nose
Spleen

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum
Stomach - Forestomach

Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Glandular

Intestine Large - Rectum
Islets, Pancreatic
Thyroid Gland

Intestine Small - Duodenum
Pancreas

OBSERVATIONS

Heart
Kidney
Prostate
Skin
 Note: SQUAM CEL CARC TGLs = 1-11
Testes
 Note: ADENOMA TGLs = 2-10

Scapula
Interstit Cell

Degeneration
Nephropathy
Inflammation
Squamous Cell Carcinoma
Adenoma

Chronic, Mild
Chronic, Minimal
Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 665

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Spleen	Stomach - Forestomach
Trachea	Urinary Bladder		

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Blood Vessel	Aorta	Mineralization	Moderate
Heart		Degeneration	Chronic, Minimal
		Inflammation	Suppurative, Moderate
Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 7-1+18]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Nose	Mucosa	Inflammation	Suppurative, Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 10-17			
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 161	TRT#: 5	SEX: Male	DAY ON TEST: 665
	DOSE: 100 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERTROPHY TGLs = 1,4-13+16

Note: SQUAM CEL CARC TGLs = 2,3,5,6-11+12+14+15

Note: ACANTHOSIS TGLs = 1,4-13+16

Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 8,9-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: NEPHROPATHY & INFLAMMATION OF PROSTATE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:26
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 162 TRT#: 5 SEX: Male DAY ON TEST: 635
 DOSE: 100 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Preputial Gland
Salivary Glands	Thymus	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Marked
[Hyperplasia TGLS = 11-1+15]			
Liver	Bile Duct	Cyst	
Note: CYST TGLs = 10-16		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Edema	Moderate
Note: ENLARGED MESENTERIC LNS WERE ACTUALLY ATROPHIC PANCREAS.			
Note: EDEMA TGLs = 5-7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 6-7+14			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 4-7			
Prostate		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 12-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 162

TRT#: 5

DOSE: 100 MG/ML

SEX: Male

DISP: Moribund

DAY ON TEST: 635

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma Trichoepithelioma	Multiple
Note: TRICHOEPITHEL TGLs = 3-13 Note: SQUAM CEL CARC TGLs = 1,2-11+12			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-1]			
Stomach	Epithelium, Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Chronic Active, Moderate
	Glandular	Mineralization	Minimal
Note: INFLAMMATION TGLs = 15-6 Note: HYPERPLASIA TGLs = 15-6			
Testes	Interstitial Cell Interstitial Cell	Adenoma Hyperplasia	Mild
Thymus			
Note: "ENLARGED" THYMUS WITHIN NORMAL LIMITS ON MICRO.			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Note: CAUSE OF ENLARGED RED THYROID NOT SEEN ON MICRO.			
Tongue			
Note: TONGUE NORMAL ON MICRO EXAM.			

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO NEPHROPATHY & SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 687

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Myelofibrosis	Marked
Brain		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland	Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula	Basal Cell Adenoma	
	Scapula	Basal Cell Carcinoma	
	Scapula, Sebaceous GI	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 687

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Scapula

Squamous Cell Carcinoma

Multiple

Scapula

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 2-9

Note: BASAL CEL CARC TGLs = 1-8

Note: SQUAM CEL CARC TGLs = 1,3-8+10

Spleen

Leukemia Mononuclear

Stomach

Glandular

Inflammation

Necrotizing, Acute, Minimal

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 6-7

Thymus

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Minimal

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA & NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Minimal
		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

Note: HYPERTROPHY TGLs = 3-13

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ACANTHOSIS TGLs = 3-13

Note: SQUAM CEL CARC TGLs = 1,2-11+12

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-14

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5-10

Thyroid Gland

Follicular Cel

Adenoma

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mandibular	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Spleen	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Moderate
Heart		Degeneration	Chronic, Mild
		Inflammation	Suppurative, Mild
		Mineralization	Mild
Intestine Large	Cecum	Inflammation	Suppurative, Mild
Kidney	Pelvis	Inflammation	Suppurative, Minimal
		Mineralization	Mild
		Nephropathy	Chronic, Marked
Lung		Squamous Cell Carcinoma	Metastatic (Skin)
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-7		
Prostate		Inflammation	Chronic Active, Marked
Note: INFLAMMATION	TGLs = 6-14		
Skin		Keratoacanthoma	
	Scapula	Squamous Cell Carcinoma	Multiple
Note: KERATOACANTHMA	TGLs = 4-15		
Note: SQUAM CEL CARC	TGLs = 1,2,3-11+12+13		
Stomach	Forestomach	Ulcer	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mandibular	Nose	Parathyroid Gland
Preputial Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Carcinoma	Metastatic (Skin)
		Degeneration	Chronic, Mild
Kidney		Carcinoma	Metastatic (Skin)
		Nephropathy	Chronic, Mild
Lung		Carcinoma	Metastatic (Skin)
		Infarct	Moderate
Note: INFARCT TGLs = 7-2+3 [Infarct TGLS = 7,10-2+3+17]			
Lymph Node	Mediastinal	Carcinoma	Metastatic (Skin)
Note: CARCINOMA TGLs = 9-2			
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Carcinoma	Metastatic (Skin)
Pancreas		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Carcinoma	Metastatic (Skin)
Note: CARCINOMA TGLs = 2,3-12+14+15			
Skeletal Muscle	Diaphragm	Carcinoma	Metastatic (Skin)
Note: CARCINOMA TGLs = 8-16			
Skin	Scapula	Carcinoma	
Note: CARCINOMA TGLs = 1-11			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166	TRT#: 5	SEX: Male	DAY ON TEST: 591
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen			Necrosis	Moderate
Note: NECROSIS	TGLs = 5-13			
Testes		Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-10			
Thyroid Gland		C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: THORACIC FLUID & MORIBUNDITY DUE TO CARCINOMA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 167

TRT#: 5

SEX: Male

DAY ON TEST: 568

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Nose
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-7		
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 478

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Liver
Pancreas
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Ileum
Lung
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Salivary Glands
Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Heart
Kidney
Mammary Gland
Pituitary Gland
 Note: ADENOMA TGLs = 1-7
Preputial Gland
Prostate
Skin
Testes

Pars Distalis

Scapula
Scapula, Sebaceous GI
Interstit Cell

Degeneration
Nephropathy
Hyperplasia
Adenoma

Inflammation
Inflammation
Acanthosis
Hypertrophy
Hyperplasia

Chronic, Minimal
Chronic, Mild
Cystic, Moderate

Chronic Active, Moderate
Chronic Active, Minimal
Minimal
Mild
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR, MOST LIKELY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular
Pancreas	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Degeneration	Chronic, Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Inflammation	Suppurative, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-7		
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Mild
Skin	Scapula, Subcut Tiss	Fibrosarcoma	
	Back, Sebaceous GI	Hypertrophy	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: FIBROSARC	TGLs = 5-15		
Note: SQUAM CEL CARC	TGLs = 1,2,3,4-11+12+13+14		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169	TRT#: 5	SEX: Male	DAY ON TEST: 744
	DOSE: 100 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 6-16			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 170

TRT#: 5
DOSE: 100 MG/ML

SEX: Male
DISP: Dead

DAY ON TEST: 685
HISTO:

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
Lung	Lymph Node - Mandibular	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Thymus	Trachea
Urinary Bladder			

MISSING

Stomach - Forestomach

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 5-1		
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Necrotizing, Acute, Marked
Note: INFLAMMATION	TGLs = 4-11		
Pancreas		Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-6		
Prostate		Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula	Basal Cell Carcinoma	Multiple
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: BASAL CEL CARC	TGLs = 1,3-8+10		
Note: SQUAM CEL CARC	TGLs = 1,2-8+9		
Spleen		Amyloid Deposition	Moderate
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 170	TRT#: 5	SEX: Male	DAY ON TEST: 685
	DOSE: 100 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: MESENTERIC INFLAMMATION.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 1	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	Follicular Cel	Adenoma	

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 2	TRT#: 2	SEX: Female	DAY ON TEST: 736
	DOSE: 0 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Infarct	Mild
		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		[Leukemia Mononuclear TGLS = 2-1]	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Inflammation	Necrotizing, Acute, Minimal
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 2	TRT#: 2	SEX: Female	DAY ON TEST: 736
	DOSE: 0 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 3-7		
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Stomach	Forestomach	Leukemia Mononuclear	
	Forestomach	Ulcer	Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 3	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Clitoral Gland		Hyperplasia	Moderate
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 4,5-13+14			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 2-7			
Skeletal Muscle	Abdominal	Rhabdomyosarcoma	
Note: RHABDOMYOSARC TGLs = 3-11			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Inflammation	Necrotizing, Acute, Moderate
Note: INFLAMMATION TGLs = 1-12			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 3	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 1-11			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 5	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Dead	DAY ON TEST: 662 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Lung	Lymph Node - Mandibular	Nose
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Ileum	Islets, Pancreatic
Pancreas	Thyroid Gland		

OBSERVATIONS

Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST	TGLs = 1-10		
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY NEOPLASM.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
Clitoral Gland		Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Moribund	DAY ON TEST: 677 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Nose	Ovary	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

INSUFFICIENT TISSUE

Islets, Pancreatic	Pancreas
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
	Bone Marrow	Leukemia Mononuclear	
Clitoral Gland	Femoral	Hyperplasia	Mild
		Degeneration	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Fatty Change	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
	Lymph Node	Mandibular	Leukemia Mononuclear
Mediastinal		Leukemia Mononuclear	
Mesenteric		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Moribund	DAY ON TEST: 677 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Scapula	Acanthosis	Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 8	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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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
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Adenoma	
		Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
Note: HYPERPLASIA	TGLs = 1-11		
Note: ADENOMA	TGLs = 1-11		
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB	TGLs = 2-12		
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA	TGLs = 3-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 9	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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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	Liver
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Brain		Carcinoma	Metastatic (Pituitary Gland)
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 2-7			
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 10

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Dead

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Ovary	Parathyroid Gland	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 2-1		
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: NECROSIS	TGLs = 1-4		
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Mucosa	Thrombosis	
Pancreas		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 3-7		
Salivary Glands		Necrosis	Moderate
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 10

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Dead

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth	Dysplasia	Mild
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PRIMARY CAUSE OF DEATH

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Animal Note: COD: PITUITARY LESIONS & LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 11	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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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	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 12

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 743
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Clitoral Gland		Adenoma	
		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Note: ADENOMA	TGLs = 2-11		
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 3-7		
Skin	Back, Sebaceous GI	Adenoma	
Note: ADENOMA	TGLs = 1-12		
Thymus		Thymoma Malignant	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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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 - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Moderate
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 1-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 743
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Note: NO MICRO LESION FOR FOCUS SEEN GROSSLY.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Pancreas	Acinus	Atrophy	Mild
		Metaplasia	Minimal
Note: METAPLASIA OF ACINAR CELLS TO HEPATOID CELLS.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Stomach	Forestomach	Ulcer	Marked
Note: ULCER TGLs = 4-13			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 15	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 1-11			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16	TRT#: 2	SEX: Female	DAY ON TEST: 383
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Degeneration	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Liver		Basophilic Focus	
Skin	Hair Follicle	Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 1-4+7+10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO DIFFUSE ALOPECIA(INFLAM,HAIR FOLL).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 2	SEX: Female	DAY ON TEST: 721
	DOSE: 0 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 1-7		
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 18 TRT#: 2 SEX: Female DAY ON TEST: 743
DOSE: 0 MG/ML DISP: Terminal Sacrifice HISTO:

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

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM MAL TGLs = 2-7	Medulla	Pheochromocytoma Malignant	
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Marked
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 19	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

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

MISSING

Clitoral Gland

OBSERVATIONS

Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 2-11		
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA	TGLs = 1-10+12		
Pituitary Gland		Adenoma	
Note: ADENOMA	TGLs = 3-7		
Thyroid Gland		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Granulosa Cell Tumor Benign	
Note: GRANLSA TM BGN TGLs = 1-11			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 2-7			
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 21

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 609
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node - Mandibular
Nose	Ovary	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Clitoral Gland	Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Islets, Pancreatic		Hyperplasia	Marked
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-11			
Pancreas	Acinus	Atrophy	Moderate
Parathyroid GI			
Note: PARATHYROID CUT THRU AT SECTIONING.			
Pituitary GI			
Note: PITUITARY CUT THRU AT SECTIONING.			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO MAMMARY FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 744
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Lymph Node - Mandibular	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 2-12		
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA	TGLs = 1-11		
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-7		
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 744
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Spleen	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Intestine Small	Duodenum	Inflammation	Necrotizing, Acute, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 3-1+13]			
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 1-7+11			
Pancreas	Acinus	Atrophy	Marked
Pituitary Gland			
Note: PITUITARY COULD NOT BE FOUND AT MICRO.			
Salivary Glands		Atrophy	Moderate
Skin		Inflammation	Necrotizing, Acute, Moderate
Note: SKIN MASS WAS ACTUALLY MAMMARY GLAND.			
Spleen			
Note: NO MICRO LESION TO EXPLAIN GROSS OBS ON SPLEEN.			
Stomach	Epithelium, Forestomach	Hyperplasia	Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 24

TRT#: 2

SEX: Female

DAY ON TEST: 715

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

Thyroid Gland

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Fatty Change	Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Stomach	Forestomach	Ulcer	Moderate
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: MAY HAVE BEEN RELATED TO GASTRIC LESION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 725
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
Eye		Degeneration	Mild
Note: DEGEN	TGLs = 2-11		
Heart		Degeneration	Chronic, Minimal
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-1		
Liver		Basophilic Focus	
		Fatty Change	Moderate
		Leukemia Mononuclear	
Note: FATTY CHANGE	TGLs = 4-4		
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 1-7		
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Ulcer	Moderate
Thyroid Gland	C Cell	Hyperplasia	Moderate
Vagina		Inflammation	Suppurative, Mild
Note: INFLAMMATION	TGLs = 5-10		

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 725
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 744
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1,2-11+12			
Note: ADENOCARC TGLs = 3-13			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 4-14			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 1-11		
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 2-7		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 29

TRT#: 2

SEX: Female

DAY ON TEST: 626

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Lung	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-11			
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-10			

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Marked
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Marked
	Hepatocyte	Regeneration	Moderate
Note: NECROSIS	TGLs = 5-4		
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA	TGLs = 2,3-12+13		
Mesentery		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Ovary Note: CYST TGLs = 6-10		Cyst	
Pituitary Gland Note: LEUKEMIA MONUC TGLs = 7-7 Note: HYPERPLASIA TGLs = 7-7	Pars Distalis	Hyperplasia Leukemia Mononuclear	Mild
Skin Note: FIBROMA TGLs = 1-11	Subcut Tiss	Fibroma	
Spleen Note: LEUKEMIA MONUC TGLs = 4-14		Leukemia Mononuclear	
Stomach Thyroid Gland	Glandular C Cell	Inflammation Hyperplasia	Necrotizing, Acute, Mild Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:26
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 31 TRT#: 2 SEX: Female DAY ON TEST: 714
 DOSE: 0 MG/ML DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mandibular	Nose	Parathyroid Gland
Salivary Glands	Skin	Trachea	

AUTO PRECLUDES DIAG.

Thyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Mild
Brain		Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Bacterium	
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Note: LEUKEMIA MONUC	TGLs = 2-4		
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Dead	DAY ON TEST: 714 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-11		
Stomach	Glandular	Inflammation	Necrotizing, Acute, Mild
	Forestomach	Ulcer	Moderate
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,4-10		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD & THORACIC FLUID WAS LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32	TRT#: 2	SEX: Female	DAY ON TEST: 425
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Nose	Pituitary Gland
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OBSERVATIONS

Clitoral Gland		Hyperplasia	Minimal
Intestine Large	Rectum	Parasite Metazoan	
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-11			
Nose			
Note: HEAD(INCLUDING NOSE) WAS MISSING AT TRIM.			
Pituitary Gland			
Note: PITUITARY INADVERTENTLY LOST IN PROCESSING(TGL 1).			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORIBUNDITY UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

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	Lung
Lymph Node - Mandibular	Nose	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Minimal
	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Lymphoma Malignant Histiocytic	
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 1-11		
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST	TGLs = 2-10		
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST	TGLs = 3-7		
Skin	Back	Acanthosis	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 34 TRT#: 2 SEX: Female DAY ON TEST: 725
DOSE: 0 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Ovary
Pancreas	Parathyroid Gland	Skin	Spleen
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Intestine Large	Colon	Inflammation	Suppurative, Mild
	Rectum	Inflammation	Suppurative, Mild
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
		Fatty Change	Marked
Note: FATTY CHANGE TGLs = 3-4			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Salivary Glands		Inflammation	Suppurative, Minimal
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal
	Glandular	Inflammation	Necrotizing, Acute, Mild
Vagina		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 4-10			

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY LESION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Ovary	Salivary Glands	Skin	Spleen
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
	Mandible	Fibrous Osteodystrophy	
Note: FIB OSTEODYST	TGLs = 1-11		
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Degeneration	Chronic, Mild
		Mineralization	Minimal
Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Mild
		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB	TGLs = 2-12		
Lung		Inflammation	Chronic Active, Mild
		Mineralization	Mild
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas		Inflammation	Chronic Active, Minimal
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA	TGLs = 3-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Glandular	Mineralization	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36

TRT#: 2

SEX: Female

DAY ON TEST: 719

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-4		
Note: FATTY CHANGE	TGLs = 4-4		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
		Leukemia Mononuclear	
Note: FIBROADENOMA	TGLs = 1-11		
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 5-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36	TRT#: 2	SEX: Female	DAY ON TEST: 719
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Fibrosis Leukemia Mononuclear	Moderate
Note: FIBROSIS TGLs = 6-12 Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Forestomach	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Centrilobular	Leukemia Mononuclear	
Note: NECROSIS	TGLs = 3-13	Necrosis	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA	TGLs = 1,2-11+12		
Pituitary Gland	Pars Distalis	Carcinoma	
	Pars Distalis	Hyperplasia	Mild
Note: CARCINOMA	TGLs = 4-7		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 586
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Eye	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Myelofibrosis	Mild
	Femoral	Necrosis	Marked
Eye			
Note: PALE EYES WERE WITHIN NORMAL LIMITS ON MICRO.			
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

Note: ADENOMA TGLs = 3-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 586
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear
Stomach	Glandular	Leukemia Mononuclear
Thymus		Leukemia Mononuclear
Tongue		Leukemia Mononuclear
		Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 1-12

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 698
DOSE: 0 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA	TGLs = 1-8		
Mesentery		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 2-6		
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Moderate
	Glandular	Inflammation	Chronic Active, Mild
Note: INFLAMMATION	TGLs = 3-6		
Note: HYPERPLASIA	TGLs = 3-6		
Thyroid Gland	C Cell	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 40	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: 0 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 41

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Nose
Ovary	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
Intest Small			
Note: JEJUNAL LESION DESCRIBED GROSSLY WAS ACTUALLY LYMPH NODE.			
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node	Mesenteric	Edema	Moderate
Note: EDEMA	TGLs = 2,3-11+12		
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 1-7		
Skin	Scapula	Acanthosis	Minimal
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 42	TRT#: 2	SEX: Female	DAY ON TEST: 609
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11		
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO MAMMARY FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 43

TRT#: 2

SEX: Female

DAY ON TEST: 226

DOSE: 0 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Skin
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Lung

Note: LUNGS RED DUE TO POOLING OF BLOOD IN CAPILLARIES(NORMAL)

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Thyroid Gland

Follicular Cel

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

Animal Note: GREEN ORAL CAVITY OBSTRUCTION WAS INGESTA(NST).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 698
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Brain		Compression	
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8+13		
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 4-6		
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 2-9		
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 3-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MORIBUND DUE TO PITUITARY LESION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45

TRT#: 2

SEX: Female

DAY ON TEST: 635

DOSE: 0 MG/ML

DISP: Moribund

HISTO:

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	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Myelofibrosis	Mild
Eye		Degeneration	Moderate
Note: DEGEN	TGLs = 1-11		
Heart		Degeneration	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 7,9-4+13		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2+3		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4,10-6+7		
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Nose		Leukemia Mononuclear	
	Mucosa	Thrombosis	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 45	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Moribund	DAY ON TEST: 635 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland Note: HYPERPLASIA TGLs = 3-7	Pars Distalis	Hyperplasia Leukemia Mononuclear	Mild
Skin Note: FIBROMA TGLs = 2-12	Subcut Tiss	Fibroma	
Spleen [Leukemia Mononuclear TGLS = 8-1]		Leukemia Mononuclear	
Thymus Note: LEUKEMIA MONUC TGLs = 5-2		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 46	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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 - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone	Tarsal	Hyperostosis	
	Tarsal	Inflammation	Chronic Active, Moderate
Note: INFLAMMATION	TGLs = 1-12		
Note: HYPEROSTOSIS	TGLs = 1-12		
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Necrotizing, Acute, Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA	TGLs = 2-11		
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 3-7		
Skin	Scapula	Acanthosis	Minimal
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47	TRT#: 2 DOSE: 0 MG/ML	SEX: Female DISP: Dead	DAY ON TEST: 604 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Ileum	Thyroid Gland
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OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST	TGLs = 2-10		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 48

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 744
HISTO:

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
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 2-11			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	Multiple
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 49	TRT#: 2	SEX: Female	DAY ON TEST: 602
	DOSE: 0 MG/ML	DISP: Moribund	HISTO:

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

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Note: NEPHROPATHY	TGLs = 2-1		
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA	TGLs = 1-11		
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 50

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
Note: CARCINOMA	TGLs = 2-5		
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Ovary			
Note: OVARIES RED DUE TO POOLED BLOOD IN VESSELS (NORMAL).			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 1-7		
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urin Bladder			
Note: DILATED U BLADDER WITHIN NORMAL LIMITS ON MICRO.			
Vagina		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 50

TRT#: 2
DOSE: 0 MG/ML

SEX: Female
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 5-10

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:26
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 61 TRT#: 4 SEX: Female DAY ON TEST: 571
 DOSE: 50 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
Note: LEUKEMIA MONUC TGLs = 3,4-4+11			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 1-7			
Skin	Scapula	Acanthosis	Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 62

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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
Nose	Ovary	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney	Pelvis	Inflammation	Suppurative, Moderate
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Fatty Change	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 3-7]			
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
[Acanthosis TGLS = 1,2-11+12]			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 63	TRT#: 4	SEX: Female	DAY ON TEST: 602
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

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

MISSING

Thymus

OBSERVATIONS

Clitoral Gland	Duct	Hyperplasia	Mild
Eye		Degeneration	Mild
Note: DEGEN	TGLs = 1-12		
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Fibroadenoma	
Mammary Gland			
Note: FIBROADENOMA	TGLs = 2-11		
Ovary			
Note: RED OVARIES DUE TO BLOOD IN VESSELS (NORMAL).			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 64

TRT#: 4

SEX: Female

DAY ON TEST: 718

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
Clitoral Gland		Adenoma	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung	Alveolar Epith	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 2-7		
Skin	Scapula	Squamous Cell Carcinoma	
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 1-10		

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 65

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Inflammation	Necrotizing, Acute, Moderate
Heart		Degeneration	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: ACANTHOSIS TGLs = 1-11			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Nose	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7-2+3]	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Note: LEUKEMIA MONUC	TGLs = 6,8-2+15	
Mammary Gland		Adenocarcinoma	
Ovary		Cyst	
		Luteoma	
	Note: CYST	TGLs = 5-14	
		[Cyst TGLS = 5-14]	
Pancreas	Acinus	Atrophy	Mild
	Note: PANCREATIC NODULE WAS ACTUALLY LYMPH NODE.		
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 9-7]	
Skin	Scapula	Acanthosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66	TRT#: 4	SEX: Female	DAY ON TEST: 743
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Scapula, Sebaceous GI	Hypertrophy	Mild
Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2,3-11+12+13		
Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-16]		
Thymus	Leukemia Mononuclear	
Thyroid Gland	C Cell	Minimal
Hyperplasia		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 67	TRT#: 4	SEX: Female	DAY ON TEST: 670
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Liver	Lung	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Kidney		Nephropathy	Chronic, Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 2-7			
Skin	Scapula	Acanthosis	Minimal
Spleen			
Note: SMALL SPLEEN NORMAL ON MICRO.			
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 68 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 613
DOSE: 50 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Fatty Change	Mild
		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Lipoma	
Note: LIPOMA TGLs = 3-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin	Scapula	Acanthosis	Minimal
	Scapula	Inflammation	Necrotizing, Acute, Minimal
Note: INFLAMMATION TGLs = 1-4			
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal
	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -
Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 69 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 625
DOSE: 50 MG/ML **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-11			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 2-7			
Skin	Scapula	Squamous Cell Carcinoma	
Thyroid Gland	C Cell	Hyperplasia	Mild
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 70	TRT#: 4	SEX: Female	DAY ON TEST: 584
	DOSE: 50 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Eye			
Note: PALE EYES NORMAL ON MICRO.			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71	TRT#: 4	SEX: Female	DAY ON TEST: 609
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-11		
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: HYPERPLASIA	TGLs = 1-7		
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72	TRT#: 4 DOSE: 50 MG/ML	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO:
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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
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Hyperplasia Hyperplasia	Mild Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus Hyperplasia	Focal, Moderate
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland [Fibroadenoma TGLS = 1-12]		Fibroadenoma	
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Hyperplasia	Mild
Skin [Squamous Cell Carcinoma TGLS = 2-4+11]	Scapula	Squamous Cell Carcinoma	Multiple
Thyroid Gland	Bilateral, C Cell C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 73

TRT#: 4

SEX: Female

DAY ON TEST: 410

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

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

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

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

AUTO PRECLUDES DIAG.

Pituitary Gland

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Heart

Degeneration

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74	TRT#: 4	SEX: Female	DAY ON TEST: 743
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Amyloid Deposition	Mild
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Scapula	Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-11]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 75	TRT#: 4	SEX: Female	DAY ON TEST: 739
	DOSE: 50 MG/ML	DISP: Dead	HISTO:

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	Lung	Lymph Node - Mandibular	Nose
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

INSUFFICIENT TISSUE

Ovary

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3-10		
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 2-12		
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-7		
Skin	Scapula	Basal Cell Carcinoma	
	Scapula	Cyst Epithelial Inclusion	
[Basal Cell Carcinoma TGLS = 1-11]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76	TRT#: 4	SEX: Female	DAY ON TEST: 661
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 1-7		
Skin	Scapula	Acanthosis	Minimal
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 77 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 637
DOSE: 50 MG/ML **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-4	Necrosis	Minimal
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-7		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11		
Ovary		Cyst	
Note: RED OVARY DUE TO BLOOD IN VESSELS (NORMAL).			
Note: CYST	TGLs = 4-10		
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-12		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78 TRT#: 4 SEX: Female DAY ON TEST: 572
DOSE: 50 MG/ML DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Colon
Liver	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	

OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung			
Note: COLOR OF LUNGS DUE TO BLOOD IN VESSELS (NORMAL PM CHANGE).			
Ovary		Cyst	
Note: RED OVARY DUE TO BLOOD IN VESSELS (NORMAL).			
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR MOST LIKELY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 4	SEX: Female	DAY ON TEST: 676
	DOSE: 50 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Uterus			

OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Spleen		Leukemia Mononuclear	
Note: RUPTURE OF SPLEEN SECONDARY TO LEUKEMIA. [Leukemia Mononuclear TGLS = 2-1+11]			
Urinary Bladder	Transit Epithe	Papilloma	

PRIMARY CAUSE OF DEATH -

Animal Note: COD: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80	TRT#: 4	SEX: Female	DAY ON TEST: 743
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

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	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-12		
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: "NODULE" SEEN GROSSLY WAS NOT APPARENT ON MICRO.			
Lung		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11		
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 4-7]			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Intestine Large	Cecum	Parasite Metazoan	
Kidney	Cortex	Atrophy	Focal, Moderate
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Artery	Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 5-7		
Skin	Scapula	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 2,3,4-11+12+13		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Urinary Bladder	Transit Epithe	Papilloma	
Uterus		Polyp Stromal	Multiple
Note: POLYP STROMAL	TGLs = 1-10+14		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 82

TRT#: 4

SEX: Female

DAY ON TEST: 608

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Lung	Lymph Node - Mandibular	Nose	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST	TGLs = 1-10		
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-7		
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
Note: ACANTHOSIS	TGLs = 3-11		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
Pituitary Gland	Bile Duct	Hyperplasia	Minimal
	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-7		
Note: ADENOMA	TGLs = 1-7		
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 84

TRT#: 4

SEX: Female

DAY ON TEST: 638

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Note: ANOM HEPAT LOB TGLs = 2-11			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 3-7			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Note: ACANTHOSIS TGLs = 1-4			
Thyroid Gland	C Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 85	TRT#: 4	SEX: Female	DAY ON TEST: 618
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 1-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 743
DOSE: 50 MG/ML **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Lymph Node - Mandibular
Nose	Ovary	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Moderate
Clitoral Gland		Inflammation	Chronic Active, Moderate
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-13			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-7]			
Skin	Scapula	Acanthosis	Mild
	Scapula	Basal Cell Carcinoma	
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	
[Acanthosis TGLS = 3-12]			
[Hypertrophy TGLS = 2-11]			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Clitoral Gland		Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-7]			
Salivary Glands		Focal Cellular Change	
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Inflammation	Chronic Active, Minimal
	Scapula	Squamous Cell Carcinoma	
[Inflammation TGLS = 1-11]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-12			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:26
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 88 TRT#: 4 SEX: Female DAY ON TEST: 743
 DOSE: 50 MG/ML DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Ovary
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Moderate
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
	Femoral	Leukemia Mononuclear	
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 3-13			
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin	Scapula	Acanthosis	Minimal
	Scapula	Basal Cell Carcinoma	
	Scapula	Squamous Cell Carcinoma	Multiple
Note: BASAL CEL CARC TGLs = 1-11 [Basal Cell Carcinoma TGLS = 2-12]			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Note: GROSS RED LESIONS--DILATED SINUSOIDS W/RBCS (NORMAL).			
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
	Pars Distalis	Hyperplasia	Mild
		[Carcinoma TGLS = 2-7]	
		[Hyperplasia TGLS = 2-7]	
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90	TRT#: 4	SEX: Female	DAY ON TEST: 744
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin	Scapula	Acanthosis	Minimal
Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-1]	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91	TRT#: 4	SEX: Female	DAY ON TEST: 542
	DOSE: 50 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92	TRT#: 4	SEX: Female	DAY ON TEST: 487
	DOSE: 50 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Large - Cecum	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
Ovary			
Note: OVARIES RED DUE TO BLOOD IN VESSELS (NORMAL).			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 93 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 744
DOSE: 50 MG/ML **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Necrotizing, Acute, Mild
Note: GROSS RED LESIONS--RBCS IN SINUSOIDS (NORMAL).			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 2-12			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 4-7]	
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94

TRT#: 4

SEX: Female

DAY ON TEST: 471

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Kidney
Liver	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Clitoral Gland		Hyperplasia	Mild
Eye		Degeneration	Mild
Note: DEGEN	TGLs = 1-11		
Heart		Degeneration	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 2-7		
Skin	Scapula, Sebaceous GI	Hypertrophy	Minimal
Thyroid Gland	C Cell	Adenoma	
Tongue		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 3-11		
Uterus		Inflammation	Chronic Active, Marked
		Prolapse	
Note: INFLAMMATION	TGLs = 4-12		
Note: PROLAPSE	TGLs = 4-12		

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO PROLAPSED UTERUS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 95

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Marked
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Fibroadenoma	
Mammary Gland			
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 3-7]			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 95

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96	TRT#: 4	SEX: Female	DAY ON TEST: 744
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Clitoral Gland		Adenoma	
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Mild
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 1-11		
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97 TRT#: 4 SEX: Female DAY ON TEST: 600
DOSE: 50 MG/ML DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Necrosis	Moderate
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MEDIASTINAL LN WITHIN NORMAL LIMITS ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Marked
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Minimal
Stomach	Glandular	Inflammation	Necrotizing, Acute, Minimal
Uterus		Polyp Stromal	

Note: POLYP STROMAL TGLs = 3-10

PRIMARY CAUSE OF DEATH

-

Animal Note: COD & THORACIC FLUID MOSTLY LIKELY HEART FAILURE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98 TRT#: 4 SEX: Female DAY ON TEST: 744
DOSE: 50 MG/ML DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephroblastoma Malignant	
		Nephropathy	Chronic, Moderate
Note: NEPHRBLAST MAL TGLs = 2-11			
Liver		Basophilic Focus	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus		Dilatation	Moderate
		Polyp Stromal	

[Polyp Stromal TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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	Lung
Lymph Node - Mandibular	Ovary	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Brain		Carcinoma	Metastatic (Pituitary Gland)
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 3-7			
Skin		Basal Cell Adenoma	
	Scapula	Squamous Cell Carcinoma	Multiple
Note: BASAL CEL ADEN TGLs = 2-12			
Note: SQUAM CEL CARC TGLs = 1-4+11			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLs = 4-7]			
Brain		Carcinoma	Metastatic (Pituitary Gland)
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 3-7		
Skin	Scapula	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-11+12		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102	TRT#: 4	SEX: Female	DAY ON TEST: 744
	DOSE: 50 MG/ML	DISP: Terminal Sacrifice	HISTO:

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	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
	[Carcinoma TGLS = 3-7]		
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	
	[Acanthosis TGLS = 2-12]		
	[Acanthosis TGLS = 1-11]		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103

TRT#: 4

SEX: Female

DAY ON TEST: 612

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lung		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-10		
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-7		
Skin	Scapula	Acanthosis	Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-11		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 4

SEX: Female

DAY ON TEST: 656

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Nose
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Ovary
Spleen
Trachea

Brain
Intestine Large - Colon
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Cortex

Adenoma
Degeneration
Nephropathy
Basophilic Focus
Degeneration

Chronic, Mild
Chronic, Mild

Note: GROSS PALE FOCUS NOT APPARENT ON MICRO.

Lung
Mammary Gland
Pituitary Gland

Inflammation
Hyperplasia
Carcinoma

Chronic Active, Mild
Cystic, Mild

Note: CARCINOMA TGLs = 2-7

Pars Distalis

Skin

Acanthosis

Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105

TRT#: 4

SEX: Female

DAY ON TEST: 534

DOSE: 50 MG/ML

DISP: Moribund

HISTO:

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
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Spleen
Thymus	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-11		
Kidney		Nephropathy	Chronic, Mild
Liver		Fatty Change	Minimal
Pancreas		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-7		
Skin	Scapula	Acanthosis	Minimal
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal
	Glandular	Inflammation	Necrotizing, Acute, Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Inflammation	Chronic Active, Marked
		Sarcoma Stromal	
Note: SARC STROMAL	TGLs = 3-12		
Note: INFLAMMATION	TGLs = 3-12		

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO UTERINE INFLAMMATION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Adenoma	
Heart		Degeneration	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Eosinophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 2-12			
Pharynx	Palate	Squamous Cell Carcinoma	
Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 3-7]			
Skin	Back	Acanthosis	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
[Acanthosis TGLS = 1-11]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107

TRT#: 4

SEX: Female

DAY ON TEST: 166

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Bone Marrow
Liver

Femoral

Hyperplasia
Hepatodiaphragmatic Nodule

Reticulum Cell, Moderate

[Hepatodiaphragmatic Nodule TGLS = 1-14]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108

TRT#: 4

SEX: Female

DAY ON TEST: 619

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Kidney	Liver	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Pancreas	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Thyroid Gland
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OBSERVATIONS

Brain	Compression	
Pituitary Gland	Pars Distalis	Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY LESION.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 109

TRT#: 4

SEX: Female

DAY ON TEST: 591

DOSE: 50 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Intestine Large - Cecum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Thyroid Gland			

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin	Scapula	Acanthosis	Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 110

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 50 MG/ML

DISP: Terminal Sacrifice

HISTO:

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Clitoral Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-10]			
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node	Mandibular	Inflammation	Necrotizing, Acute, Moderate
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Adenoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
[Adenoma TGLS = 1-11]			
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Minimal
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Necrosis	Mild
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Infarct	Mild
		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Necrotizing, Acute, Marked
Heart		Leukemia Mononuclear	
Intestine Small	Ileum	Inflammation	Necrotizing, Acute, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Lung		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 2-12			
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Carcinoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 3-7

Skin Scapula

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 1-11

Spleen

Leukemia Mononuclear

Stomach Glandular

Inflammation

Necrotizing, Acute, Marked

Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 122

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

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
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA	TGLs = 3-12		
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 4-7		
Skin	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-11		
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL	TGLs = 2-13		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123

TRT#: 6

SEX: Female

DAY ON TEST: 508

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORIBUNDITY UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:26

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 124

TRT#: 6

DOSE: 100 MG/ML

SEX: Female

DISP: Dead

DAY ON TEST: 684

HISTO:

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 - Mandibular

Nose

Ovary

Parathyroid Gland

Salivary Glands

Spleen

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Clitoral Gland

Adenoma

Inflammation

Necrotizing, Acute, Moderate

Note: ADENOMA TGLs = 5-12

Heart

Degeneration

Chronic, Mild

Kidney

Nephropathy

Chronic, Mild

Liver

Basophilic Focus

Inflammation

Necrotizing, Acute, Mild

Mammary Gland

Hyperplasia

Cystic, Minimal

Pancreas

Inflammation

Acute, Minimal

Pituitary Gland

Pars Distalis

Carcinoma

Note: CARCINOMA TGLs = 6-6

Skin

Back

Acanthosis

Minimal

Scapula

Acanthosis

Mild

Scapula

Basal Cell Carcinoma

Back, Sebaceous GI

Hypertrophy

Minimal

Scapula, Sebaceous GI

Hypertrophy

Mild

Scapula

Squamous Cell Carcinoma

Multiple

Note: BASAL CEL CARC TGLs = 4-10

Note: SQUAM CEL CARC TGLs = 1,2,3-8+9+10+11

Thymus

Thymoma Benign

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 124

TRT#: 6

SEX: Female

DAY ON TEST: 684

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD: LESIONS OF PITUITARY & SKIN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 125

TRT#: 6

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Small - Duodenum
Nose
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Liver
Parathyroid Gland
Thyroid Gland

Bone
Esophagus
Lung
Salivary Glands
Trachea

Bone Marrow
Intestine Large - Rectum
Lymph Node - Mandibular
Stomach - Forestomach
Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Islets, Pancreatic
Thymus

Intestine Large - Colon
Kidney

Intestine Small - Ileum
Pancreas

Intestine Small - Jejunum
Spleen

OBSERVATIONS

Heart
Mammary Gland
Ovary
 Note: CYST TGLs = 2-10
Pituitary Gland
 Note: CARCINOMA TGLs = 1-7
Skin

Pars Distalis
Scapula
Scapula, Sebaceous GI

Degeneration
Hyperplasia
Cyst
Carcinoma
Acanthosis
Hypertrophy

Chronic, Mild
Cystic, Moderate

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 126

TRT#: 6

SEX: Female

DAY ON TEST: 524

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Eye
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Thyroid Gland	Trachea
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OBSERVATIONS

Eye

Note: EYES AUTOLYZED BUT OTHERWISE NORMAL ON MICRO.

Heart

Kidney

Liver

Pituitary Gland

Note: ADENOMA TGLs = 2-7

Skin

Uterus

Note: POLYP STROMAL TGLs = 3-10

Degeneration

Nephropathy

Basophilic Focus

Hyperplasia

Adenoma

Acanthosis

Hypertrophy

Inflammation

Polyp Stromal

Chronic, Minimal

Chronic, Minimal

Mild

Mild

Mild

Necrotizing, Acute, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 127

TRT#: 6

SEX: Female

DAY ON TEST: 694

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Esophagus			
Note: ESOPHAGEAL "MASS" WAS NORMAL FAT.			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 4-11			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Scapula	Acanthosis	Minimal
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2,3-8+9+10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128

TRT#: 6

SEX: Female

DAY ON TEST: 654

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Eye		Degeneration	Mild
Note: DEGEN	TGLs = 4-13		
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Skin	Scapula	Acanthosis	Moderate
	Scapula	Basal Cell Carcinoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

Note: TGL'S 1 & 3 MERGED MICROSCOPICALLY.

Note: BASAL CEL CARC TGLs = 3-11

Note: SQUAM CEL CARC TGLs = 1,2-11+12

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:26
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 129

TRT#: 6

SEX: Female

DAY ON TEST: 460

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 3-11]			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Spleen			
Note: SPLEEN SOFT DUE TO POSTMORTEM AUTOLYSIS.			
Uterus			
Note: GREEN UTERUS DUE TO POSTMORTEM AUTOLYSIS.			

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 130

TRT#: 6

SEX: Female

DAY ON TEST: 396

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 1-7			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 690

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Trachea	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Leukemia Mononuclear	
Clitoral Gland	Duct	Hyperplasia	Moderate
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Minimal
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-8			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 690

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SQUAMOUS CELL CARCINOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 132

TRT#: 6

SEX: Female

DAY ON TEST: 620

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

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
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Moderate
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORIBUNDITY UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 133

TRT#: 6

SEX: Female

DAY ON TEST: 661

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-4			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 134

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-7		
Skin	Scapula	Acanthosis	Mild
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3-11+12+13		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135

TRT#: 6

SEX: Female

DAY ON TEST: 681

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland		Hyperplasia	Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB TGLs = 5-9			
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
		Leukemia Mononuclear	
Note: CARCINOMA TGLs = 1-6			
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Moderate
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135	TRT#: 6	SEX: Female	DAY ON TEST: 681
	DOSE: 100 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 2-8	Scapula	Squamous Cell Carcinoma
Note: ACANTHOSIS TGLs = 3-9		
Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 4-1]		
Thyroid Gland	C Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR & LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 136

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 3-13]		Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Mild
Ovary		Cyst	
Note: CYST TGLs = 4-10			
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 5-7			
Salivary Glands		Atrophy	Mild
Skin	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2-11+12			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 137 TRT#: 6 SEX: Female DAY ON TEST: 519
DOSE: 100 MG/ML DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Uterus		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Intestine Small - Jejunum	Urinary Bladder
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OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: PITUITARY TUMOR.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 138	TRT#: 6	SEX: Female	DAY ON TEST: 403
	DOSE: 100 MG/ML	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Pancreas	Acinus	Atrophy	Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:27

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 139

TRT#: 6

SEX: Female

DAY ON TEST: 640

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Lung
Parathyroid Gland
Stomach - Glandular
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Spleen
Trachea

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Heart
Kidney
Liver
Mammary Gland
Nose
Pituitary Gland
Skin

Nasolacrim Dct
Pars Distalis
Back
Scapula
Back, Sebaceous GI
Scapula, Sebaceous GI

Degeneration
Nephropathy
Basophilic Focus
Hyperplasia
Inflammation
Adenoma
Acanthosis
Acanthosis
Hypertrophy
Hypertrophy

Chronic, Minimal
Chronic, Minimal
Cystic, Mild
Suppurative, Minimal
Minimal
Mild
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: POSSIBLY THE PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 140 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 601
DOSE: 100 MG/ML **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-5+7		
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Skin	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-4		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-11		
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 601

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141

TRT#: 6

SEX: Female

DAY ON TEST: 648

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST	TGLs = 4-10		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-7		
Skin	Scapula	Acanthosis	Moderate
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-4+11		
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: COD: POSSIBLY THE PITUITARY LESION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 142

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Moderate
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Heart		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 3-13			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2-11+12			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 142

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 143

TRT#: 6

SEX: Female

DAY ON TEST: 619

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Kidney	Lung	Lymph Node - Mandibular
Mammary Gland	Ovary	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

Bone Marrow	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Pituitary Gland	

OBSERVATIONS

Heart		Degeneration	Chronic, Minimal
Intestine Large	Cecum	Parasite Metazoan	
Kidney			
Note: GROSS "CYST" WAS NOT A CYST BUT AN ARTIFACT.			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Adenoma	
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal

Note: ADENOMA TGLs = 1-4

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 144

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Liver
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Minimal
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Clitoral Gland		Hyperplasia	Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Mucosa	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA	TGLs = 3-7		
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-11+12		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Trachea		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 145

TRT#: 6

SEX: Female

DAY ON TEST: 562

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum
-------------------------	-------------------------

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary			
Note: ENLARGED BLACK LEFT OVARY WITHIN NORMAL LIMITS ON MICRO.			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:27

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 146

TRT#: 6

SEX: Female

DAY ON TEST: 696

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Liver
Ovary
Spleen
Trachea

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Mammary Gland
Pituitary Gland

Medulla

Pars Distalis
Pars Distalis

Hyperplasia
Degeneration
Nephropathy
Hyperplasia
Adenoma
Degeneration

Acanthosis
Hypertrophy
Squamous Cell Carcinoma
Squamous Cell Carcinoma

Minimal
Chronic, Mild
Chronic, Mild
Cystic, Minimal

Focal, Mild

Minimal
Minimal
Multiple

Note: ADENOMA TGLs = 3-6

Skin

Scapula
Scapula, Sebaceous GI
Back
Scapula

Note: SQUAM CEL CARC TGLs = 1,2-8+9

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: POSSIBLY THE PITUITARY LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147

TRT#: 6

SEX: Female

DAY ON TEST: 676

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Squamous Cell Carcinoma	Metastatic (Skin)
Lymph Node	Mesenteric	Edema	Mild
	Axillary	Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 4,5-12+13		
Note: EDEMA	TGLs = 6-15		
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-7		
Skin	Scapula	Inflammation	Chronic Active, Marked
		Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1-4+14		
Note: INFLAMMATION	TGLs = 2-11		
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SKIN TUMOR W/METASTASES.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:27

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 148

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Lung
Pancreas
Spleen
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular

Brain
Intestine Large - Colon
Islets, Pancreatic
Ovary
Salivary Glands
Trachea

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland
Note: HYPERPLASIA TGLs = 4-6

Cortex

Hyperplasia

Moderate

Heart

Degeneration

Chronic, Mild

Kidney

Nephropathy

Chronic, Minimal

Liver

Basophilic Focus

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-10

Skin

Scapula

Acanthosis

Moderate

Back, Sebaceous GI

Hypertrophy

Minimal

Scapula, Sebaceous GI

Hypertrophy

Mild

Scapula

Squamous Cell Carcinoma

Multiple

Note: SQUAM CEL CARC TGLs = 1,2-8+9

Thyroid Gland

C Cell

Adenoma

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: POSSIBLY RELATED TO SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 149

TRT#: 6

SEX: Female

DAY ON TEST: 648

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Liver	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Mild
Note: ADENOCARC	TGLs = 3-13		
Ovary		Cyst	
Note: CYST	TGLs = 5-10		
Note: OVARIES RED GROSSLY DUE TO BLOOD IN VESSELS--NORMAL.			
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 4-7		
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2-11+12		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO SKIN TUMORS & PITUITARY TUMOR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 150

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Ovary	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea	Uterus	

MISSING

Parathyroid Gland	Thymus	Urinary Bladder
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Degeneration	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
		Squamous Cell Carcinoma	Metastatic (Skin)
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Skin	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-11		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-12		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tooth	Gingiva	Hyperplasia	Squamous, Mild
Note: GINGIVAL HYPERPLASIA AT SITE OF MISSING MOLAR.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 150

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	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	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Skin	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-11		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-12		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152

TRT#: 6

SEX: Female

DAY ON TEST: 612

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Nose
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Skin	Back	Acanthosis	Mild
	Scapula	Acanthosis	Mild
	Back, Sebaceous GI	Hypertrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152

TRT#: 6

SEX: Female

DAY ON TEST: 612

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Scapula, Sebaceous GI

Hypertrophy

Minimal

Note: ACANTHOSIS TGLs = 1-4

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-11

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 153

TRT#: 6

SEX: Female

DAY ON TEST: 564

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Brain		Carcinoma	Metastatic (Pituitary Gland)
Kidney		Nephropathy	Chronic, Minimal
Liver		Fatty Change	Moderate
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 1-7		
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY NEOPLASM.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154

TRT#: 6

SEX: Female

DAY ON TEST: 410

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Minimal
Lymph Node			
Note: ENLARGED MANDIBULAR LN WITHIN NORMAL LIMITS ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Ovary			
Note: RED OVARIES GROSSLY DUE TO BLOOD IN VESSELS (NORMAL).			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Minimal
	Back, Sebaceous GI	Hypertrophy	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORIBUNDITY UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01

Test Type: CHRONIC

Route: DERMAL,SOLUTION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Vinyl-1-cyclohexene diepoxide

CAS Number: 106-87-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:31:27

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 155

TRT#: 6

SEX: Female

DAY ON TEST: 689

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Harderian Gland		Inflammation	Chronic, Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: ENLARGED MEDIASTINAL LN WITHIN NORMAL LIMITS ON MICRO.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Minimal
	Back, Sebaceous GI	Hypertrophy	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple

Note: SQUAM CEL CARC TGLs = 1,2,3-8+9+10

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: POSSIBLY SECONDARY TO SKIN TUMORS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 156

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mandibular
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone Marrow	Femoral, Myeloid Cell	Hyperplasia	Moderate
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 2-2		
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Skin	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-11		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 157

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland	Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Scapula	Acanthosis	Minimal
	Scapula	Basal Cell Carcinoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: BASAL CELL TUMOR IN SLIDE 12.			
Note: SQUAM CEL CARC TGLs = 1,2,3,4-11+12+13+14			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:27
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 158 TRT#: 6 SEX: Female DAY ON TEST: 744
 DOSE: 100 MG/ML DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Clitoral Gland		Inflammation	Chronic Active, Minimal
Heart		Degeneration	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Chronic Active, Minimal
Mammary Gland		Hyperplasia	Cystic, Minimal
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Scapula	Acanthosis	Mild
	Scapula	Basal Cell Carcinoma	
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3-11+12+13		
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Leukemia Mononuclear	
Pharynx		Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159	TRT#: 6	SEX: Female	DAY ON TEST: 695
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-6		Leukemia Mononuclear	
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-8			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-9			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 160

TRT#: 6

SEX: Female

DAY ON TEST: 404

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Large - Rectum

OBSERVATIONS

Harderian Gland		Inflammation	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Skin	Scapula	Acanthosis	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	
		Prolapse	

Note: PROLAPSE TGLs = 1-10+11

Note: POLYP STROMAL TGLs = 1-11

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO UTERINE LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 161 TRT#: 6 SEX: Female DAY ON TEST: 635
DOSE: 100 MG/ML DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Eye		Degeneration	Marked
Note: DEGEN TGLs = 3-12 Note: BLACK RT EYE DUE TO ORBITAL BLOOD COLLECTION AT SACRIFICE.			
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Ovary			
Note: CYST WAS PROBABLY DISTENDED BURSA; NOT SEEN AT MICRO.			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2-4			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 6-11			

PRIMARY CAUSE OF DEATH -

Animal Note: MORIBUND DUE TO TONGUE PAPILOMA MOST LIKELY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 162

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Minimal
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3,4-11+12+13+14		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 163

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Ovary
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Hyperplasia	Squamous, Minimal
	Mucosa	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Salivary Glands	Duct	Inflammation	Chronic Active, Minimal
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-11			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 164

TRT#: 6

SEX: Female

DAY ON TEST: 670

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Heart		Degeneration	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7,8-4+15			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 9-7			
Note: LEUKEMIA MONUC TGLs = 9-7			
Skin	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Subcut Tiss	Lipoma	
	Scapula	Squamous Cell Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 164

TRT#: 6

SEX: Female

DAY ON TEST: 670

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 1,2-4+11+12

Note: LIPOMA TGLs = 3-13

Spleen

Hemorrhage

Chronic, Marked

Leukemia Mononuclear

Note: HEMORRHAGE TGLs = 5-14

Thyroid Gland

Follicular Cel

Adenoma

Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

Animal Note: COD & ABD FLUID WAS LEUKEMIA & SPLENIC RUPTURE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165

TRT#: 6

SEX: Female

DAY ON TEST: 620

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Lung	Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2-1]			
Liver		Basophilic Focus	
		Inflammation	Necrotizing, Acute, Minimal
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Mucosa	Inflammation	Suppurative, Minimal
Ovary		Cyst	
Note: CYST TGLs = 1-10			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 3-7			
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Moderate
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165

TRT#: 6

SEX: Female

DAY ON TEST: 620

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MORIBUND DUE TO PITUITARY NEOPLASM.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166

TRT#: 6

SEX: Female

DAY ON TEST: 689

DOSE: 100 MG/ML

DISP: Dead

HISTO:

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

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 4-12			
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung	Mediastinum	Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 6-2			
Lymph Node	Mandibular	Hematopoietic Cell Proliferation	Marked
	Mediastinal	Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 6-2			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 5-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-6			
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Mild
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple
	Scapula	Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166

TRT#: 6

SEX: Female

DAY ON TEST: 689

DOSE: 100 MG/ML

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PAPILLOMA SQUA TGLs = 3-10

Note: SQUAM CEL CARC TGLs = 1,2-8+9

PRIMARY CAUSE OF DEATH

-

Animal Note: COD: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 167

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 100 MG/ML

DISP: Terminal Sacrifice

HISTO:

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
Lung	Lymph Node - Mandibular	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA	TGLs = 4-14		
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-7		
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 1,2,3-4+11+12+13		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
 Test Type: CHRONIC
 Route: DERMAL,SOLUTION
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: 4-Vinyl-1-cyclohexene diepoxide
 CAS Number: 106-87-6

Date Report Requested: 10/22/2014
 Time Report Requested: 06:31:27
 First Dose M/F: NA / NA
 Lab: BAT

ANIMAL ID: 168 TRT#: 6 SEX: Female DAY ON TEST: 744
 DOSE: 100 MG/ML DISP: Terminal Sacrifice HISTO:

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	Lung
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
Clitoral Gland		Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
Heart		Degeneration	Chronic, Minimal
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 5-14			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
	Scapula	Squamous Cell Carcinoma	Multiple
[Acanthosis TGLS = 1,2,3-11+12+13]			
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169

TRT#: 6

SEX: Female

DAY ON TEST: 675

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Note: NO MICRO LESION TO EXPLAIN GROSSLY ENLARGED ADRENALS.			
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
		Sarcoma	
Note: SARCOMA TGLs = 7-15			
Note: INFLAMMATION TGLs = 7-15			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 4-14			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 5-7			
Skin	Back	Acanthosis	Minimal
	Scapula	Acanthosis	Moderate
	Back, Sebaceous GI	Hypertrophy	Minimal
	Scapula, Sebaceous GI	Hypertrophy	Mild
	Scapula	Squamous Cell Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169	TRT#: 6	SEX: Female	DAY ON TEST: 675
	DOSE: 100 MG/ML	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC	TGLs = 1,2,3-4+11+12+13		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

Experiment Number: 05044-01
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4-Vinyl-1-cyclohexene diepoxide
CAS Number: 106-87-6

Date Report Requested: 10/22/2014
Time Report Requested: 06:31:27
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 170

TRT#: 6

SEX: Female

DAY ON TEST: 494

DOSE: 100 MG/ML

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	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 - Mandibular	Nose	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Brain		Compression	
Heart		Degeneration	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
Lymph Node	Mesenteric	Hemangiosarcoma	
Note: HEMANGIOSARC TGLs = 2-11			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Note: CYST TGLs = 1-10			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 3-7			
Skin	Scapula	Acanthosis	Mild
	Scapula, Sebaceous GI	Hypertrophy	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND DUE TO PITUITARY TUMOR.

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE