

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

C Number:	C55663
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	11/10/1988

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7101

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Ear

Lung

Nose

OBSERVATIONS

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 1-8

Testes

Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7102

TRT#: 3

SEX: Male

DAY ON TEST: 672

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11556

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	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Moderate
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5+11		
Larynx		Hemorrhage	Mild
Liver		Basophilic Focus	Moderate
Lung	Alveolus	Inflammation	Suppurative, Mild
Lymph Node	Renal	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 4-5		
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Preputial Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-12+13		
Testes	Artery	Inflammation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7103

TRT#: 3

SEX: Male

DAY ON TEST: 651

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11557

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	Larynx	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-4		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3+12		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4,9-6+15		
Note: LEUKEMIA MONUC	TGLs = 2-3		
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 3-8		
Spinal Cord		Hemorrhage	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7103

TRT#: 3

SEX: Male

DAY ON TEST: 651

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11557

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE TGLs = 5-11

Spleen

Leukemia Mononuclear

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1,8-13+14

Stomach

Forestomach

Leukemia Mononuclear

Glandular

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 10-8

Note: LEUKEMIA MONUC TGLs = 11-8

Testes

Leukemia Mononuclear

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7104

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11558

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
Larynx	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Brain		Compression	Moderate
		Hemorrhage	Moderate
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 3-4		
Kidney		Nephropathy	Chronic, Moderate
Liver		Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Inflammation	Suppurative, Marked
Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7105

TRT#: 3

SEX: Male

DAY ON TEST: 710

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 11559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Islets, Pancreatic	Larynx
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial	Prostate
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AUTO PRECLUDES DIAG.

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

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung	Alveolus	Edema	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-8			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-4			
Testes	Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7106

TRT#: 3

SEX: Male

DAY ON TEST: 672

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 8668

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	Larynx	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Seminal Vesicle
Skin	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
Note: LEUKEMIA MONUC	TGLs = 2-4		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3+11		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3		
Nose	Glands	Dilatation	Minimal
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Stomach	Forestomach	Acanthosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7106

TRT#: 3

SEX: Male

DAY ON TEST: 672

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 8668

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
	Forestomach	Ulcer	Marked
Note: ULCER	TGLs = 5,6-8		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
		Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7107

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10617

OBSERVATIONS

Intestine Large [Hemorrhage TGLS = 6-6]	Cecum	Hemorrhage	Minimal
Kidney [Nephropathy TGLS = 3-5]		Nephropathy	Chronic, Marked
Lung Note: HYPERPLASIA TGLs = 4-3+11 [Alveolar/Bronchiolar Adenoma TGLS = 7-11]	Alveolar Epith	Alveolar/Bronchiolar Adenoma Hyperplasia	Moderate
Nose		Foreign Body Inflammation	Mild Suppurative, Mild
Pituitary Gland [Adenoma TGLS = 5-8]	Pars Distalis	Adenoma	
Testes [Adenoma TGLS = 2-7]	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7108

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10618

OBSERVATIONS

Eye

Lens

Cataract

Mild

Note: CATARACT TGLs = 1-11

Nose

Glands

Dilatation

Minimal

Note: DILATED GLANDS ARE IN THE MOST CAUDAL SECTION

Note: OF NOSE.

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7109

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10619

OBSERVATIONS

Nose

Glands

Dilatation

Mild

Testes

Interstit Cell

Adenoma

Atrophy

Marked

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7110

TRT#: 3

SEX: Male

DAY ON TEST: 659

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland Note: LEUKEMIA MONUC TGLs = 4-5	Cortex	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain Note: HEMORRHAGE TGLs = 6-1		Hemorrhage	Moderate
Kidney Note: INFARCT TGLs = 8-5+13		Infarct	Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver Note: LEUKEMIA MONUC TGLs = 3-4	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lung Note: LEUKEMIA MONUC TGLs = 7-3+11		Leukemia Mononuclear	
Lymph Node Note: LEUKEMIA MONUC TGLs = 1-14	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7110

TRT#: 3

SEX: Male

DAY ON TEST: 659

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11560

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-8
Salivary Glands

Leukemia Mononuclear

Note: HEMORRHAGE TGLs = 9-14
Seminal Vesicle
Spleen

Hemorrhage

Marked

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-12
Thymus

Inflammation

Suppurative, Marked

Leukemia Mononuclear

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7111

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Skin Cyst Epithelial Inclusion

Note: CYST EPITH INC TGLs = 1-11

Testes Interstit Cell Adenoma Multiple

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7112

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 6-5

Eye

Cataract

Mild

Note: CATARACT TGLs = 5-11

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Necrosis

Marked

[Hyperplasia TGLS = 2-12]

[Leukemia Mononuclear TGLS = 3-4]

Pituitary Gland

Pars Distalis

Adenoma

Leukemia Mononuclear

Note: ADENOMA TGLs = 4-8

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-4]

Testes

Interstitial Cell

Adenoma

Multiple

Atrophy

Moderate

Note: ATROPHY TGLs = 8-7

Note: ADENOMA TGLs = 7-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7113

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 11561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Brain		Compression	Marked
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Inflammation	Granulomatous, Mild
Pancreas	Acinus	Atrophy	Mild
	Artery	Inflammation	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Testes	Artery	Inflammation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7114

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Nose

OBSERVATIONS

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGSL = 1-8]

Testes

Interstit Cell

Adenoma

[Adenoma TGSL = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7115

TRT#: 3

SEX: Male

DAY ON TEST: 681

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Nose
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Brain		Compression	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Developmental Malformation	
Note: DEVELOP MALFOR TGLs = 1,2-11			
Note: FROM A DIAPHRAGMATIC HERNIA.			
Note: LIVER LESION ON SLIDE 11 IS APPARENTLY THE RESULT			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-8			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7116

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Liver Developmental Malformation

Note: DEVELOP MALFOR TGLs = 5-12

Lung Alveolar Epith Hyperplasia Mild
Alveolus Infiltration Cellular Histiocyte, Moderate

Note: HYPERPLASIA TGLs = 4-11

Note: INFILTRAT CELL TGLs = 4-11

Mesentery Necrosis Marked

Note: NECROSIS TGLs = 1-13

Testes Interstit Cell Adenoma Multiple
Atrophy Marked

Note: ADENOMA TGLs = 2,3-7

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7117	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 1.5MG/M3 MALE	DISP: Terminal Sacrifice	HISTO: 10624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose	Stomach - Forestomach	Stomach - Glandular
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OBSERVATIONS

Epididymis Note: MESOTHELIO MAL TGLs = 2-11+12		Mesothelioma Malignant	
Intestine Large [Hemorrhage TGLS = 4-6]	Cecum	Hemorrhage	Mild
Testes Note: MESOTHELIO MAL TGLs = 5,2-11+12 [Adenoma TGLS = 1-7+11]	Interstit Cell	Adenoma Mesothelioma Malignant	Multiple
Thyroid Gland [Carcinoma TGLS = 3-2]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7118

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye

Nose

OBSERVATIONS

Liver

Clear Cell Focus

Mild

Bile Duct

Hyperplasia

Mild

[Hyperplasia TGLS = 3-4]

Lung

Alveolar Epith

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 4-13

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7119

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 11563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Lymph Node - Bronchial
Pancreas
Seminal Vesicle
Testes

Adrenal Gland - Medulla
Esophagus
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thymus

Bone
Heart
Mammary Gland
Preputial Gland
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Trachea

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum

Intestine Large - Colon
Intestine Small - Jejunum

Intestine Large - Rectum
Urinary Bladder

Intestine Small - Duodenum

OBSERVATIONS

Brain
Kidney
Larynx
Liver
Lung
Note: HEMORRHAGE TGLs = 1-3
Pituitary Gland Pars Distalis
Note: ADENOMA TGLs = 2-8
Prostate
Spleen

Compression
Hemorrhage
Nephropathy
Inflammation
Leukemia Mononuclear
Hemorrhage
Leukemia Mononuclear
Adenoma
Inflammation
Leukemia Mononuclear

Moderate
Mild
Chronic, Moderate
Suppurative, Mild
Mild
Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7120

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10626

OBSERVATIONS

Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
Note: LEUKEMIA MONUC TGLs = 5-4			
Nose	Respirat Epith	Hyperplasia	Mild
Note: HYPERPLASIA IN THE NOSE IS IN SECTION 1			
Note: AND IS MOSTLY PROLIFERATION OF THE GOBLET			
Note: CELLS IN THE RESPIRATORY EPITHELIUM AROUND			
Note: AROUND THE VOMERONASAL ORGANS.			
Preputial Gland		Cyst	
Note: CYST TGLs = 1-7			
Spleen		Fibrosis Leukemia Mononuclear	Moderate
Note: LEUKEMIA MONUC TGLs = 6-4			
Note: FIBROSIS TGLs = 3-11			
Stomach	Forestomach	Fibrosis	Moderate
Note: FIBROSIS TGLs = 4-11			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2,7-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7121

TRT#: 3

SEX: Male

DAY ON TEST: 693

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Brain	Ventricle	Dilatation Oligodendroglioma Benign	Marked
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Nose	Glands	Dilatation	Mild
Testes	Interstit Cell	Adenoma Atrophy	Multiple Marked
Note: ADENOMA	TGLs = 1-7		
Trachea	Epithelium	Hyperplasia Inflammation	Mild Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7122

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10627

OBSERVATIONS

Nose

Respirat Epith

Foreign Body

Mild

Hyperplasia

Mild

Inflammation

Suppurative, Moderate

Note: NOSE LESIONS ARE IN THE MOST CAUDAL SECTION OF

Note: THE NOSE.

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1,2-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7123

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Intestine Large [Hemorrhage TGLS = 4-6]	Cecum	Hemorrhage	Marked
Liver		Leukemia Mononuclear	
Lymph Node [Leukemia Mononuclear TGLS = 3-7]	Mandibular	Leukemia Mononuclear	
Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
Spleen [Leukemia Mononuclear TGLS = 2-4]		Leukemia Mononuclear	
Stomach [Diverticulum TGLS = 5-8]	Forestomach	Diverticulum	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7124

TRT#: 3

SEX: Male

DAY ON TEST: 686

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11565

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 - Bronchial
Lymph Node - Mandibular	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Nose	Glands	Dilatation	Mild
Prostate		Inflammation	Suppurative, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked

Note: ADENOMA TGLs = 2,3-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7125

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland

OBSERVATIONS

Nose	Respirat Epith	Metaplasia	Squamous, Minimal
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
[Adenoma TGLS = 2-11]			
[Atrophy TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7126

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10630

OBSERVATIONS

Liver

Developmental Malformation

Note: DEVELOP MALFOR TGLs = 5-11

Nose

Glands

Dilatation

Minimal

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Inflammation

Suppurative, Moderate

Metaplasia

Squamous, Mild

Note: THE NOSE LESIONS ARE IN THE VENTRAL PART OF THE

Note: MOST SEVERE IN THE MIDDLE SECTION OF THE NOSE.

Note: MEDIAN SEPTUM AND ADJACENT LATERAL WALL AND ARE

Spleen

Fibrosis

Moderate

Note: FIBROSIS TGLs = 3,4-4

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 2-7

[Adenoma TGLS = 1-7]

Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7127

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Mesentery

Sarcoma

Note: SARCOMA TGLs = 2-11

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7128

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10632

OBSERVATIONS

Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Testes		Atrophy	Marked
[Atrophy TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7129

TRT#: 3

SEX: Male

DAY ON TEST: 717

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Moderate
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Testes	Interstitial Cell	Adenoma	
		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7130

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10633

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Malignant

Kidney

Nephropathy

Chronic, Marked

Note: NEPHROPATHY TGLs = 4-5

Liver

Leukemia Mononuclear

Lymph Node

Renal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-5

Nose

Glands

Dilatation

Minimal

Inflammation

Suppurative, Mild

Note: INFLAMMATION OF THE NOSE IS IN THE MOST CAUDAL

Note: SECTION AND IS FOCAL AND IS AROUND A FOREIGN BODY.

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 6-8

Preputial Gland

Cyst

Note: CYST TGLs = 1-7

Prostate

Inflammation

Suppurative, Marked

Note: INFLAMMATION TGLs = 2-8

Spleen

Fibrosis

Moderate

Leukemia Mononuclear

Note: FIBROSIS TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7131

TRT#: 3

SEX: Male

DAY ON TEST: 609

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 9395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Heart	Islets, Pancreatic	Larynx	Lymph Node - Mandibular
Mammary Gland	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Testes	Trachea

MISSING

Intestine Large - Cecum	Lymph Node - Bronchial	Preputial Gland	Thymus
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AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Kidney	Liver	Lung	Nose
Pancreas	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Urinary Bladder		

OBSERVATIONS

Pituitary Gland	Cyst
Note: CYST TGLs = 1-8	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7132

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Bronchial	Mammary Gland	Pancreas	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
Note: [MESOTHELIO MAL] TGLs = 3-7+11			
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Seminal Vesicle		Mesothelioma Malignant	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-4			
Testes		Atrophy	Marked
		Mesothelioma Malignant	
Note: [MESOTHELIO MAL] TGLs = 2-7+11			
Note: ATROPHY TGLs = 2-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7132

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11567

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7133

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-8]

Testes

Interstit Cell

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7134

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Liver

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-4]

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

[Adenoma TGLS = 2,3,4-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7135

TRT#: 3

SEX: Male

DAY ON TEST: 699

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 11568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Epididymis	Esophagus
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Mammary Gland	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum
-------------------------	-------------------------

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Bone Marrow		Leukemia Mononuclear	
Brain		Compression	Moderate
		Hemorrhage	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 3-4		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-7		
Note: LEUKEMIA MONUC	TGLs = 4-3		
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7135

TRT#: 3

SEX: Male

DAY ON TEST: 699

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 11568

ORGAN AND ACCOUNTABLE SITE STATUS

Seminal Vesicle

Inflammation

Suppurative, Moderate

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7136

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10636

OBSERVATIONS

Nose

Foreign Body

Mild

Inflammation

Suppurative, Moderate

Note: THE MIDDLE SECTION OF THE NOSE, JUST THIS

Note: THE INFLAMMATION IS AROUND THE FOREIGN BODY, IN

Note: SIDE OF THE MEDIAN SEPTUM, DORSALLY.

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

[Adenoma TGLS = 2-11]

[Atrophy TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7137

TRT#: 3

SEX: Male

DAY ON TEST: 693

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Brain		Compression	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: LEUKEMIA MONUC	TGLs = 2,3-4+12		
Note: NEOPLASTIC NOD	TGLs = 3-12		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Mesentery		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 6-11		
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-8		
Seminal Vesicle		Inflammation	Suppurative, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7137

TRT#: 3

SEX: Male

DAY ON TEST: 693

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11569

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7138

TRT#: 3

SEX: Male

DAY ON TEST: 598

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 9306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Mammary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow		Leukemia Mononuclear	
Brain		Compression	Moderate
		Hemorrhage	Moderate
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 2-5		
Larynx		Inflammation	Suppurative, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Suppurative, Marked
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA	TGLs = 5-1+8		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7138

TRT#: 3

SEX: Male

DAY ON TEST: 598

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 9306

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7139

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Lung	Alveolar Epith	Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
Stomach	Epithelium, Glandular	Hyperplasia	Moderate
[Hyperplasia TGLS = 5-8]			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
[Adenoma TGLS = 1,3-11]			
[Atrophy TGLS = 2-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7140

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 3-8

Skin

Cyst Epithelial Inclusion

Note: CYST EPITH INC TGLs = 1-12

Testes

Interstitial Cell

Adenoma

Multiple

Atrophy

Marked

[Adenoma TGLS = 2-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7141

TRT#: 3

SEX: Male

DAY ON TEST: 535

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 8695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mesentery		Schwannoma Nos	
Note: SCHWANNOMA NOS TGLs = 2-11			
Note: SITE OF ORIGIN OF THIS ABDOMINAL TUMOR IS NOT			
Note: DETERMINED. IT APPEARED TO BE ATTACHED TO THE			
Note: PERITONEAL WALL. THE CLOSEST I CAN COME IS			
Note: MESENTERY AS FAR AS CODING TO A SITE. THE ACCURATE			
Note: SITE WOULD BE PERITONEUM.			
Nose	Glands	Dilatation	Mild
Pancreas		Leukemia Mononuclear	
Prostate		Inflammation	Suppurative, Moderate
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7141

TRT#: 3

SEX: Male

DAY ON TEST: 535

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 8695

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-4

Testes

Interstit Cell

Adenoma

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7142

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10639

OBSERVATIONS

Lymph Node

Mediastinal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-11]

Nose

Glands

Dilatation

Mild

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-12]

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7143

TRT#: 3

SEX: Male

DAY ON TEST: 601

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 9383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Small - Duodenum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Pancreas
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

Brain		Compression	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Developmental Malformation	
	Bile Duct	Hyperplasia	Mild
Note: DEVELOP MALFOR TGLs = 3-11			
Note: LIVER LESION ON SLIDE 11 IS HISTOLOGICALLY NORMAL			
Note: AND I AM ASSUMING IT IS A DIAPHRAGMATIC HERNIA			
Lung		Hemorrhage	Mild
Mesentery		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 2-13			
Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
		Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-8			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7143

TRT#: 3

SEX: Male

DAY ON TEST: 601

DOSE: 1.5MG/M3 MALE

DISP: Dead

HISTO: 9383

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate

Inflammation

Suppurative, Mild

Stomach

Glandular

Inflammation

Suppurative, Moderate

Note: INFLAMMATION TGLs = 4-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7144

TRT#: 3

SEX: Male

DAY ON TEST: 720

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11570

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

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Compression	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7145

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Granulomatous, Mild
		Necrosis	Moderate
Nose		Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Marked
Skin		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 3-11			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 5-7			
Note: ATROPHY TGLs = 6-7			
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Marked
[Carcinoma TGLS = 4-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7146

TRT#: 3

SEX: Male

DAY ON TEST: 623

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Osteosarcoma	Metastatic (Bone)
Note: PRIMARY SITE IS SCAPULA.			
Bone		Osteosarcoma	
Note: OSTEOSARC TGLs = 4-11+12+13+14			
Kidney		Nephropathy	Chronic, Moderate
Larynx	Epithelium	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Lung		Osteosarcoma	Metastatic (Bone)
Note: OSTEOSARC TGLs = 2,3-3+15			
Note: THE LUNG OSTEOSARCOMA PRIMARY SITE IS SCAPULA.			
Nose	Glands	Dilatation	Mild
Skeletal Muscle		Osteosarcoma	Metastatic (Bone)
Note: OSTEOSARCOMA PRIMARY SITE IS SCAPULA.			
Note: OSTEOSARC TGLs = 5-14			
Spleen		Osteosarcoma	Metastatic (Bone)
Note: PRIMARY SITE OF SPLEEN OSTEOSARCOMA IS SCAPULA.			
Note: OSTEOSARC TGLs = 1-16			
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7146

TRT#: 3

SEX: Male

DAY ON TEST: 623

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11571

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 7-7

Note: ADENOMA TGLs = 6-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7147

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

OBSERVATIONS

Nose	Glands	Dilatation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]		Atrophy	Marked
[Atrophy TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7148

TRT#: 3

DOSE: 1.5MG/M3 MALE

SEX: Male

DISP: Moribund

DAY ON TEST: 699

HISTO: 11572

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	Larynx	Lymph Node - Bronchial	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Brain		Compression	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-5			
Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: VACUOLIZ CYTO TGLs = 2-4			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-8			
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Inflammation	Suppurative, Moderate
	Glandular	Inflammation	Suppurative, Moderate
	Forestomach	Ulcer	Mild
Note: ULCER TGLs = 5-8			
Note: INFLAMMATION TGLs = 5-8			
Note: INFLAMMATION TGLs = 5-8			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7148

TRT#: 3

SEX: Male

DAY ON TEST: 699

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11572

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7149

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1.5MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10641

OBSERVATIONS

Epididymis

Angiectasis

Marked

Note: ANGIECTASIS TGLs = 5-14

Kidney

Nephropathy

Chronic, Marked

Note: NEPHROPATHY TGLs = 4-5

Liver

Leukemia Monocytic

Nose

Glands

Dilatation

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 6-8

Prostate

Inflammation

Suppurative, Moderate

Note: INFLAMMATION TGLs = 2-8

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-11

Testes

Interstit Cell

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7150

TRT#: 3

SEX: Male

DAY ON TEST: 630

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11573

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	Larynx	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
[Hemorrhage TGLS = 3-1]			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lung	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Prostate		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Seminal Vesicle		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7150

TRT#: 3

SEX: Male

DAY ON TEST: 630

DOSE: 1.5MG/M3 MALE

DISP: Moribund

HISTO: 11573

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Leukemia Mononuclear

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8101

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Vacuolization Cytoplasmic	Moderate
Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 2-11		
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Testes	Artery	Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8102

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Nose	Glands	Dilatation	Mild
		Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-8			
Salivary Glands		Inflammation	Chronic, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-4			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 2,3-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8103

TRT#: 5

SEX: Male

DAY ON TEST: 560

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 9043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Spleen		Leukemia Mononuclear	
Stomach	Forestomach, Muscularis	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 3,4-8		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8103

TRT#: 5

SEX: Male

DAY ON TEST: 560

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 9043

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8104

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
Lung		Alveolar/Bronchiolar Adenoma	
Note: 5 STEP SECTIONS OF LUNG: STILL AN ADENOMA.			
Note: ALV BRON ADEN TGLs = 2-11			
Nose	Glands Respirat Epith	Dilatation Hyperplasia Inflammation	Moderate Mild Suppurative, Mild
Note: GLANDS IN THE OLFACATORY EPITH. ON NOSE SECTION 3.			
Note: HYPERPLASIA IS GOBLET CELL HYPERPLASIA.			
Note: IT IS ON ONE SIDE OF THE MEDIAN SEPTUM IN SECTIONS			
Note: 1 AND 2. THERE IS ALSO SOME DISTENTION OF THE			
Testes	Interstitial Cell	Adenoma Atrophy	Multiple Moderate
Note: ADENOMA TGLs = 1-12			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8105

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Epididymis		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Moderate
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild

Note: LEUKEMIA MONUC TGLs = 5-4+12

Note: LUNG: LEUKEMIA MONONUCLEAR

Note: LYMPH NODE: LEUKEMIA MONONUCLEAR

Note: BRONCHIAL GLANDS: LEUKEMIA MONONUCLEAR

Note: NOSE: DILATATION OF OLFACTORY MUCOSA

Note: HYPERPLASIA OF OLFACTORY MUCOSA

Note: HYPERPLASIA IS GOBLET CELL HYPERPLASIA NEAR THE

Note: AND TO A LESSER EXTENT IN SECTION 2. AS IN THE LAST

Note: PLUGS IN THE SEMUCOSAL GLANDS IN THE OLFACTORY

Note: ANIMAL THERE IS ALSO SOME WHAT APPEAR TO BE MUCUS

Note: EPITH. IN SECTION 3.

Note: MEDIAN SEPTUM NEAR THE VENTRAL MEATUS ON SECTION 1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8105

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10557

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-11		
Note: HEMORRHAGE	TGLs = 3-11		
Stomach	Forestomach	Inflammation	Suppurative, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8106

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Prostate
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Larynx
Pancreas
Salivary Glands
Thyroid Gland

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Bronchial
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Preputial Gland
Stomach - Glandular
Urinary Bladder

MISSING

Intestine Large - Rectum

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Heart
Kidney
Liver

Lung
Note: HYPERPLASIA TGLs = 2-11
Nose
Seminal Vesicle
Skin

Bile Duct

Alveolar Epith
Glands

Cardiomyopathy
Nephropathy
Hyperplasia
Leukemia Mononuclear
Hyperplasia

Dilatation
Inflammation
Acanthosis
Cyst Epithelial Inclusion
Hyperkeratosis

Developmental Malformation
Leukemia Mononuclear

Mild
Chronic, Mild
Mild

Mild
Mild
Suppurative, Mild
Moderate

Moderate

Note: CYST EPITH INC TGLs = 1-13
Spleen

Note: SPLEEN.
Note: THE NODULE ON SLIDE 12 IS A PIECE OF ACCESSORY
Note: DEVELOP MALFOR TGLs = 3-12

Testes
Interstit Cell

Adenoma
Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8106

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10558

ORGAN AND ACCOUNTABLE SITE STATUS

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8107

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10559

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

MISSING

Epididymis	Parathyroid Gland
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OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung	Alveolus	Inflammation	Suppurative, Mild
Nose	Glands	Dilatation	Mild
		Inflammation	Suppurative, Minimal
Skin		Cyst Epithelial Inclusion	
Note: CYST EPITH INC	TGLs = 1-12		
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ATROPHY	TGLs = 4-11		
Note: ADENOMA	TGLs = 2,3-11		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8108

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Moribund

DAY ON TEST: 556

HISTO: 9035

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	Larynx	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-5]			
Bone Marrow		Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Developmental Malformation	
		Leukemia Mononuclear	
Note: THE LIVER MASS ON SLIDE 11 IS HISTOLOGICALLY			
Note: LEUKEMIA MONUC TGLs = 3-4			
Note: NORMAL LIVER EXCEPT FOR LEUKEMIA WITH COMPRESSION			
Note: DIAPHRAGMATIC HERNIA OF THE MEDIAN LOBE.			
Note: OF THE CAPSULE. I INTERPRET THIS AS BEING A			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-3			
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Minimal
Prostate		Inflammation	Suppurative, Mild
Skeletal Muscle	Diaphragm	Developmental Malformation	
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8108	TRT#: 5	SEX: Male	DAY ON TEST: 556
	DOSE: 5.0MG/M3 MALE	DISP: Moribund	HISTO: 9035

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-4			
Testes	Interstit Cell	Adenoma Atrophy Mesothelioma Malignant	Multiple Marked
Note: [MESOTHELIO MAL] TGLs = 2-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8109

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10560

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
Larynx	Mammary Gland	Parathyroid Gland	Preputial Gland
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,4-4		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
Nose	Glands	Dilatation	Moderate
Note: ARE SOMEWHAT DILATED IN THIS ANIMAL AND IN THE			
Note: THE MUCUS GLANDS OF THE RESP. AND OLFAC. EPITH.			
Note: MOST POSTERIOR SECTION ARE DISTENDED WITH MUCUS.			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8109

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10560

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 6-8		
Prostate		Inflammation	Suppurative, Mild
Salivary Glands		Karyomegaly	Minimal
Spleen		Infarct	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Note: INFARCT	TGLs = 2-11		
Testes	Interstit Cell	Adenoma	
		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8110

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10561

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Moderate
Nose	Glands	Dilatation	Mild
		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Spleen		Fibrosis	Moderate
Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
Note: ADENOMA	TGLs = 1,3-7		
Note: ATROPHY	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8111

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Dead

DAY ON TEST: 566

HISTO: 9055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Intestine Large - Rectum
Pancreas
Seminal Vesicle
Thymus

Bone Marrow
Islets, Pancreatic
Preputial Gland
Skin
Thyroid Gland

Epididymis
Lymph Node - Bronchial
Prostate
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Mandibular

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Jejunum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland
Brain
Ear
Note: [NEUROFIBROMA] TGLs = 1-11
Heart
Kidney
Larynx
Liver
Lung
Nose
Pituitary Gland
Note: ADENOMA TGLs = 2-8
Spleen
Testes

Medulla

Bile Duct

Glands
Pars Distalis

Pheochromocytoma Benign
Hemorrhage
Neurofibroma

Cardiomyopathy
Nephropathy
Inflammation
Hyperplasia
Hemorrhage
Dilatation
Adenoma

Pigmentation
Atrophy

Mild

Mild
Chronic, Moderate
Suppurative, Mild
Minimal
Moderate
Mild

Hemosiderin, Marked
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8112

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10562

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 - Bronchial	Lymph Node - Mandibular	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Moderate
Liver		Basophilic Focus	Mild
Lung		Hemorrhage	Minimal
	Artery, Mediastinum	Inflammation	Mild
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Minimal

Note: AND THERE IS MUCUS PRESENT AND DILATED CYSTIC

Note: GLANDS IN THE MOST POSTERIOR SECTION OF THE

Note: HYPERPLASIA OF THE NOSE IS IN THE GOBLET CELLS

Note: NOSE AS WELL.

Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Salivary Glands		Karyomegaly	Minimal
Seminal Vesicle		Inflammation	Suppurative, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8112

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10562

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-7

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8113

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Moribund

DAY ON TEST: 703

HISTO: 10037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-5		
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 9,10-1		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8113

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Moribund

DAY ON TEST: 703

HISTO: 10037

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Glands Respirat Epith	Dilatation Hyperplasia	Mild Minimal
Note: SOME MUCOSAL GLANDS DILATED WITH MUCUS. THERE IS			
Note: MOST OF THE HYPERPLASIA IS GOBLET CELLS AND			
Note: ALSO MUCUS DILATATION OF THE OLFACTORY EPITHELIUM			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-8			
Spleen		Infarct Leukemia Mononuclear	Mild
Note: INFARCT TGLs = 2,11,12-4+11+12			
Note: LEUKEMIA MONUC TGLs = 1-4			
Testes	Interstit Cell	Adenoma Atrophy	Moderate
Note: ADENOMA TGLs = 3-7			
Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8114

TRT#: 5

SEX: Male

DAY ON TEST: 630

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 9446

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	Larynx	Lung
Lymph Node - Bronchial	Mammary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Pancreas		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	

Note: ADENOMA TGLs = 3-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8115

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 10052

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	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hemorrhage	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
		Necrosis	Moderate
		Thrombosis	Mild
	[Hemorrhage TGLS = 7-11]		
	[Thrombosis TGLS = 7-11]		
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 5-5			
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver	Bile Duct	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Moderate
Note: NECROSIS TGLs = 8-4			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8115

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 10052

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node

Bronchial
Mandibular

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-7

Note: LEUKEMIA MONUC TGLs = 6-3

Nose

Glands
Respirat Epith
Nasolacrim Dct

Dilatation
Hyperplasia
Inflammation

Mild
Mild
Suppurative, Mild

Note: THE HYPERPLASTIC EPITHELIUM IS GOBLET CELL EPITHELIUM

Salivary Glands

Spleen

Karyomegaly
Infarct
Leukemia Mononuclear

Minimal
Mild

Note: INFARCT TGLs = 4-13

Note: LEUKEMIA MONUC TGLs = 3-12

Testes

Interstit Cell

Adenoma
Atrophy

Multiple
Moderate

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8116

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Brain		Compression	Moderate
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11		
Nose	Glands	Dilatation	Mild
		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
Note: HYPERPLASTIC EPITHELIUM IS MOSTLY GOBLET CELL.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Preputial Gland		Inflammation	Suppurative, Marked
Testes		Atrophy	Moderate
	Artery	Inflammation	Moderate
		Mineralization	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8116

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10563

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8117

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 10564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Lung	Alveolus	Inflammation	Suppurative, Mild
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Mild

Note: SUPPURATIVE INFLAMMATION.

Note: EPITHELIUM TO RESPIRATORY EPITHELIUM IN XS-2 IN AREA OF

Note: THIS IS GOBLET CELL HYPERPLASIA. METAPLASIA OF OLFACTORY

Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

Note: ADENOMA TGLs = 1,2,4-7+11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10564

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8118

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Pancreas	Preputial Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Esophagus	Larynx	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
Note: HYPERPLASTIC EPITHELIUM IS MAINLY GOBLET CELLS.			
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Inflammation	Chronic, Mild
		Karyomegaly	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8118

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10565

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8119

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lung	Lymph Node - Bronchial	Mammary Gland	Pancreas
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Epididymis	Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Developmental Malformation	
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: OF THE NORMAL ADRENAL GLAND.			
Note: THERE IS AN ACCESSORY ADRENAL OUTSIDE THE CAPSULE			
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Granulomatous, Mild
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild
Note: HYPERPLASTIC CELLS ARE GOBLET CELLS.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Preputial Gland		Inflammation	Suppurative, Marked
Prostate		Inflammation	Suppurative, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8120

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Seminal Vesicle
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Preputial Gland
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Prostate
Spleen
Trachea

MISSING

Mammary Gland

INSUFFICIENT TISSUE

Stomach - Glandular

OBSERVATIONS

Adrenal Gland
Kidney
Larynx
Liver

Nose
Pancreas
Pituitary Gland
Testes

Medulla

Bile Duct
Hepatocyte
Glands
Acinus
Pars Distalis
Interstit Cell

Hyperplasia
Nephropathy
Inflammation
Hyperplasia
Vacuolization Cytoplasmic
Dilatation
Atrophy
Adenoma
Adenoma
Atrophy

Mild
Chronic, Moderate
Suppurative, Minimal
Minimal
Mild
Mild
Mild

Multiple
Moderate

Note: ADENOMA TGLs = 1-7+11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8121

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Bronchial	Mammary Gland
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Epididymis		Mesothelioma Malignant	
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Suppurative, Moderate
Stomach	Glandular	Fibrosis	Moderate
	Glandular	Inflammation	Chronic, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA	TGLs = 2-7		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8122

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Pituitary Gland
Seminal Vesicle
Urinary Bladder

Bone
Intestine Large - Colon
Intestine Small - Jejunum
Preputial Gland
Skin

Brain
Intestine Large - Rectum
Islets, Pancreatic
Prostate
Stomach - Forestomach

Esophagus
Intestine Small - Duodenum
Mammary Gland
Salivary Glands
Trachea

MISSING

Epididymis Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Bone Marrow
Eye
 Note: CATARACT TGLs = 6-13
Heart
Kidney
 Note: NEPHROPATHY TGLs = 5-5
Larynx
Liver

 Note: LEUKEMIA MONUC TGLs = 1-4
 Note: [ANGIECTASIS] TGLs = 4-12
Lung

Lymph Node

Nose
Pancreas

Medulla

Lens

Bile Duct

Hepatocyte

Alveolus

Bronchial
Mandibular
Glands
Acinus

Pheochromocytoma Benign
Leukemia Mononuclear
Cataract

Cardiomyopathy
Nephropathy

Inflammation
Angiectasis
Hyperplasia
Leukemia Mononuclear
Vacuolization Cytoplasmic

Inflammation
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Dilatation
Atrophy
Leukemia Mononuclear

Multiple

Mild

Mild
Chronic, Marked

Suppurative, Mild
Focal, Moderate
Moderate

Moderate

Suppurative, Minimal

Mild
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8122

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10569

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-11			
Stomach		Glandular	Fibrosis	Moderate
		Glandular	Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 7-8			
Testes		Interstit Cell	Adenoma	Multiple
			Atrophy	Marked
Note: ATROPHY	TGLs = 2-7			
Thymus			Leukemia Mononuclear	
Thyroid Gland		C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8123

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Note: PHEOCHROM BGN TGLs = 4-5			
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver		Clear Cell Focus	Mild
	Bile Duct	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung	Alveolus	Infiltration Cellular	Histiocyte, Marked
Note: INFILTRAT CELL TGLs = 2-11			
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8124

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Vacuolization Cytoplasmic	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-8			
Seminal Vesicle		Inflammation	Suppurative, Mild
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 1,2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8125

TRT#: 5

SEX: Male

DAY ON TEST: 500

DOSE: 5.0MG/M3 MALE

DISP: Dead

HISTO: 8608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Lymph Node - Bronchial
Skin	Thymus		

MISSING

Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Epididymis
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Larynx
Liver	Lung	Lymph Node - Mandibular	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Nose		Foreign Body	Mild
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8126

TRT#: 5

SEX: Male

DAY ON TEST: 611

DOSE: 5.0MG/M3 MALE

DISP: Dead

HISTO: 9398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Islets, Pancreatic	Larynx
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Epididymis

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 6-1+11		
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Preputial Gland		Cyst	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-4		
Stomach	Forestomach	Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8126

TRT#: 5

SEX: Male

DAY ON TEST: 611

DOSE: 5.0MG/M3 MALE

DISP: Dead

HISTO: 9398

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

Note: ADENOMA TGLs = 2-7

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8127

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Moderate
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
Nose	Glands	Dilatation	Minimal
		Foreign Body	Mild
		Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Skin		Papilloma	
Note: PAPHILOMA	TGLs = 1-12		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 2,3-11		
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8128

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-4		
Lung		Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

Note: ADENOMA TGLs = 1-7+11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8129

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	Mild
	Bile Duct	Developmental Malformation	
		Hyperplasia	Mild
Note: MASS ON SLIDE #12 IS WITHIN NORMAL LIMITS			
Note: DEVELOP MALFOR TGLs = 4-12			
Note: HERNIA.			
Note: HISTOLOGICALLY. PROBABLY REPRESENTS A DIAPHRAGMATIC			
Lung		Carcinoma	Metastatic (Preputial Gland)
Note: CARCINOMA TGLs = 3-3+11			
Nose	Glands	Dilatation	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
Preputial Gland		Carcinoma	
		Inflammation	Suppurative, Marked
Note: CARCINOMA TGLs = 1-13			
Note: INFLAMMATION TGLs = 1-7+13			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8129

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10574

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-7+14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8130

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

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	Larynx	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Marked
Note: OF XS 1: NO LESION FOUND. EMBEDDED AND CUT NOSE			
Note: PROLIFERATING EPITH MASS IN LUMEN OF XS 1. RECUTS			
Note: ANTERIOR TO XS 1: NO LESION FOUND.			
Preputial Gland		Cyst	
Note: CYST	TGLs = 1-7		
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8131

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 9706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
Skin		Fibroma	
Note: FIBROMA	TGLs = 2-11+12+13+14+15+16+17		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8132

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10576

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	Larynx
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Hemorrhage	Minimal
Epididymis		Inflammation	Chronic, Marked
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Mesentery		Inflammation	Chronic, Marked
Note: INFLAMMATION	TGLs = 6-12		
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Cyst	
Note: CYST	TGLs = 2-7		
Prostate		Adenoma	
		Inflammation	Suppurative, Moderate
Seminal Vesicle		Inflammation	Suppurative, Moderate
Skin		Trichoepithelioma	
Note: TRICHOEPITHEL	TGLs = 1-13		
Testes	Interstitial Cell	Adenoma	
		Atrophy	Moderate
Note: ADENOMA	TGLs = 3,5-11		
Note: ATROPHY	TGLs = 4-11		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8132

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10576

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Eye	Lens	Cataract	Moderate
Note: CATARACT	TGLs = 1-11		
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
Nose	Glands	Dilatation	Mild
Preputial Gland		Adenoma	
		Inflammation	Suppurative, Marked
Salivary Glands		Inflammation	Chronic, Minimal
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA	TGLs = 2,3-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8134

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 10578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 3-5+11		
Liver		Basophilic Focus	Mild
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA]	TGLs = 5-8		
Prostate		Inflammation	Suppurative, Marked
Seminal Vesicle		Inflammation	Suppurative, Marked
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Inflammation	Suppurative, Marked
	Forestomach	Ulcer	Marked
Note: ULCER	TGLs = 7-8		
Testes		Atrophy	Mild
	Artery	Inflammation	Marked
Note: ATROPHY	TGLs = 2-7		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Note: ADENOMA	TGLs = 6-2		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8134

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10578

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10579

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
Larynx	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Mammary Gland	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Brain	Cerebrum	Astrocytoma Nos	
Note: [ASTROCYTO NOS] TGLs = 3-1			
Heart		Cardiomyopathy	Marked
Note: CARDIOMYOPATHY TGLs = 4-11			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Minimal
Lung			
Note: THE LUNG AND LIVER IN THIS ANIMAL ARE HIGHLY			
Note: SUSPICIOUS FOR LEUKEMIA.			
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Marked
Note: INFLAMMATION TGLs = 1-7			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 2-12			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8136

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Moribund

DAY ON TEST: 717

HISTO: 10099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Epididymis	Lymph Node - Bronchial	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Nose	Glands	Dilatation	Moderate
		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin		Keratoacanthoma	
		Sarcoma	
Note: SARCOMA	TGLs = 1-11+12+13		
Note: KERATOACANTHMA	TGLs = 3-14		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 2-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8136

TRT#: 5

SEX: Male

DAY ON TEST: 717

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 10099

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8137

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 2-8			
Testes	Interstitial Cell	Adenoma	
		Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8138

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 10101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

Stomach - Forestomach

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Mild
Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Suppurative, Marked
Skin		Lipoma	
Note: LIPOMA	TGLs = 1-12+13+14+15+16+17+18		
Stomach			
Note: AT TRIMMING WAS A LYMPH NODULE.			
Note: THE TISSUE MASS DESCRIBED IN THE GLANDULAR STOMACH			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
		Mesothelioma Malignant	
Note: ATROPHY	TGLs = 3-7		
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8138

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 10101

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8139

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mandibular
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Larynx
Mammary Gland
Skin
Thymus

Bone
Esophagus
Intestine Small - Ileum
Lung
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Bronchial
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Intestine Large - Rectum

OBSERVATIONS

Heart
Kidney
Liver

Bile Duct

Nose
Pancreas
Preputial Gland
Prostate
Seminal Vesicle
Testes

Glands
Acinus

Interstit Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Inflammation
Dilatation
Atrophy
Inflammation
Inflammation
Inflammation
Adenoma
Atrophy

Mild
Chronic, Mild
Mild
Mild
Granulomatous, Mild
Mild
Moderate
Suppurative, Marked
Suppurative, Moderate
Suppurative, Moderate
Multiple
Moderate

Note: ADENOMA TGLs = 1,2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8140

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Mineralization	Marked
Heart		Cardiomyopathy	Mild
Kidney	Pelvis, Transit Epithe	Carcinoma	
		Nephropathy	Chronic, Marked
Note: CARCINOMA TGLs = 3-5			
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Moderate
Nose	Glands	Dilatation	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 1,2-11			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8141

TRT#: 5

SEX: Male

DAY ON TEST: 644

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 9485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Mammary Gland	Pancreas	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Brain		Compression	Moderate
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-8			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8142

TRT#: 5

SEX: Male

DAY ON TEST: 707

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 10042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-4		
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Mild
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8142

TRT#: 5

SEX: Male

DAY ON TEST: 707

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 10042

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 2,3-7		
Note: ATROPHY	TGLs = 1-7		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8143

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 2-5			
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Lung	Alveolus	Inflammation	Suppurative, Mild
Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-8			
Preputial Gland		Inflammation	Suppurative, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8143

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10583

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8144

TRT#: 5

DOSE: 5.0MG/M3 MALE

SEX: Male

DISP: Moribund

DAY ON TEST: 672

HISTO: 9658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Nose	Glands	Dilatation	Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-8		
Preputial Gland		Carcinoma	
		Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 1-12+13		
Note: CARCINOMA	TGLs = 1-13		
Skin		Papilloma	
Note: PAPILLOMA	TGLs = 4-11		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8145

TRT#: 5

SEX: Male

DAY ON TEST: 695

DOSE: 5.0MG/M3 MALE

DISP: Dead

HISTO: 9933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Mammary Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 3-5			
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
[Hemorrhage TGLS = 5-1]			
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-5			
Larynx		Inflammation	Suppurative, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8145

TRT#: 5

SEX: Male

DAY ON TEST: 695

DOSE: 5.0MG/M3 MALE

DISP: Dead

HISTO: 9933

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
		Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Prostate		Leukemia Mononuclear	
Seminal Vesicle		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA	TGLs = 6-8		
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:45

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8146

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 9469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Islets, Pancreatic	Parathyroid Gland	Skin
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Marked
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Epididymis		Leukemia Mononuclear	
Esophagus		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
	Rectum	Leukemia Mononuclear	
Intestine Small	Duodenum	Leukemia Mononuclear	
	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: LEUKEMIA MONUC	TGLs = 6-5		
Larynx		Foreign Body	Mild
Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC	TGLs = 5-4+11		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:45
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8146	TRT#: 5 DOSE: 5.0MG/M3 MALE	SEX: Male DISP: Moribund	DAY ON TEST: 637 HISTO: 9469
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ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Glands	Dilatation	Mild
		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
		Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 7-8		
Preputial Gland		Leukemia Mononuclear	
Prostate		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Seminal Vesicle		Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Suppurative, Marked
	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Note: HYPERKERATOSIS	TGLs = 8-8		
Testes		Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8147

TRT#: 5

SEX: Male

DAY ON TEST: 650

DOSE: 5.0MG/M3 MALE

DISP: Dead

HISTO: 9523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Larynx	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

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

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Nose	Glands	Dilatation	Mild
		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-8			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Suppurative, Moderate
	Glandular	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8148

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver		Leukemia Mononuclear	
Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Preputial Gland		Cyst	
		Inflammation	Suppurative, Moderate
Note: CYST	TGLs = 1-14		
Spleen		Fibrosis	Marked
		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 3,4,5-4+11+12+13
[Leukemia Mononuclear TGLS = 4,5-11+12+13]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8148

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10584

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Marked

Leukemia Mononuclear

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8149

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Note: CARDIOMYOPATHY TGLs = 2-4			
Intest Small			
Note: 5382			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Moderate
Lung		Leukemia Mononuclear	
Mesentery		Inflammation	Chronic, Moderate
	Fat	Necrosis	Moderate
Note: INFLAMMATION TGLs = 1-12			
Note: THIS IS NOT REALLY MESENTERY, THIS IS FAT ADJACENT			
Note: TO THE VASDEFERENS.			
Nose	Glands	Dilatation	Mild
		Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Prostate		Inflammation	Suppurative, Minimal
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 8149

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5.0MG/M3 MALE

DISP: Terminal Sacrifice

HISTO: 10585

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8150

TRT#: 5

SEX: Male

DAY ON TEST: 630

DOSE: 5.0MG/M3 MALE

DISP: Moribund

HISTO: 9447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 2-4			
Lung	Alveolus	Inflammation	Suppurative, Mild
[Inflammation TGLS = 3-3]			
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Moderate
Preputial Gland		Adenoma	
		Inflammation	Suppurative, Marked
Note: [ADENOMA] TGLs = 1-11+12			
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9401

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Heart	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Esophagus	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 1-5		
Larynx		Inflammation	Chronic, Mild
Liver		Clear Cell Focus	Minimal
Mesentery		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 4-11		
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Inflammation	Chronic, Minimal
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
		Mineralization	Moderate
Note: ADENOMA	TGLs = 2,3-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9402

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Harderian Gland		Hyperplasia	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9403

TRT#: 1

SEX: Male

DAY ON TEST: 540

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 8708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver	Hepatocyte	Vacuolization Cytoplasmic	Mild
Nose	Glands	Dilatation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Inflammation	Chronic, Minimal
Thyroid Gland	C Cell	Carcinoma	

[Carcinoma TGLS = 1-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9404

TRT#: 1

SEX: Male

DAY ON TEST: 463

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 8247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Larynx	Lymph Node - Bronchial
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Intestine Large - Cecum	Mammary Gland
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OBSERVATIONS

Brain		Hemorrhage	Marked
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Suppurative, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9405

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Eye Note: CATARACT TGLs = 1-15	Lens	Cataract	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver Note: DEVELOP MALFOR TGLs = 5-14 Note: AS NOTED ON THE PEIS FORM. Note: LIVER NODULE ON SLIDE #14 IS HISTOLOGICALLY NORMAL Note: AND APPARENTLY RESULTED FROM A DIAPHRAGMATIC HERNIA	Bile Duct	Developmental Malformation Hyperplasia	Mild
Lung		Foreign Body	Mild
Mammary Gland Note: FIBROADENOMA TGLs = 2-12+13		Fibroadenoma	
Nose	Glands	Adenoma Hyperplasia Inflammation	Marked Chronic, Minimal
Salivary Glands	Interstit Cell	Adenoma Atrophy	Multiple Moderate
Testes Note: ADENOMA TGLs = 3,4-11			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9406

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10493

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	Larynx
Mammary Gland	Pancreas	Preputial Gland	Prostate
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Fibrosis	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver	Bile Duct	Fibrosis	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-2		
Nose		Inflammation	Suppurative, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3,4-8		
Salivary Glands		Karyomegaly	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Testes	Interstit Cell	Hyperplasia	Minimal
	Artery	Inflammation	Mild
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9406

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10493

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9407

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10494

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 - Bronchial	Lymph Node - Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Compression	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Chronic, Mild
Liver		Clear Cell Focus	Mild
	Bile Duct	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Seminal Vesicle		Inflammation	Suppurative, Mild
Stomach	Forestomach	Sarcoma	
Note: SARCOMA	TGLs = 2-8		
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9408

TRT#: 1

SEX: Male

DAY ON TEST: 659

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9552

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	Larynx	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Seminal Vesicle
Skin	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Necrosis	Moderate
Note: LEUKEMIA MONUC	TGLs = 5-5		
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
		Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
		Thrombosis	Multiple, Mild
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3+11+12		
Note: HEMORRHAGE	TGLs = 9-11		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-3		
Note: LEUKEMIA MONUC	TGLs = 1-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 9408	TRT#: 1 DOSE: CONTROL MALE	SEX: Male DISP: Moribund	DAY ON TEST: 659 HISTO: 9552
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ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Hemorrhage Inflammation Necrosis	Moderate Suppurative, Moderate Moderate
Note: NOSE LESIONS ARE IN SECTION #1.			
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-8			
Salivary Glands		Leukemia Mononuclear	
Spleen		Infarct Leukemia Mononuclear	Mild
Note: INFARCT TGLs = 3-13			
Note: LEUKEMIA MONUC TGLs = 2-13			
Stomach	Glandular Forestomach Glandular Forestomach	Erosion Leukemia Mononuclear Leukemia Mononuclear Ulcer	Marked Marked
Note: EROSION TGLs = 10-8			
Note: ULCER TGLs = 11-8			
Testes	Interstit Cell	Adenoma Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9409

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-8			
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9410

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Larynx		Inflammation	Chronic, Mild
Liver		Clear Cell Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-4		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3+11		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ATROPHY	TGLs = 1-7		
Note: ADENOMA	TGLs = 2,3-7+12		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9410

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10496

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9411

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Mineralization	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Leukemia Mononuclear	
Lung			
Note: LEUKEMIA MONUC	TGLs = 2-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
Nose	Glands	Dilatation	Minimal
		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Mild
Note: ACANTHOSIS	TGLs = 4-8		
Note: HYPERKERATOSIS	TGLs = 4-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9411

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10497

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA

TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9412

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10498

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	Larynx
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Bone Marrow		Leukemia Mononuclear	
Heart		Schwannoma Nos	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-5			
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung	Alveolus	Fibrosis	Mild
		Hemorrhage	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 11-3+11			
Note: INFILTRAT CELL TGLs = 11-3			
Lymph Node	Bronchial	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9412

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10498

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-12		
Note: LEUKEMIA MONUC	TGLs = 8-13		
Nose	Glands	Dilatation	Minimal
	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 10-8		
Preputial Gland		Cyst	
		Inflammation	Suppurative, Marked
Note: CYST	TGLs = 2-15		
Note: INFLAMMATION	TGLs = 2-15		
Prostate		Inflammation	Suppurative, Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-4		
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 5-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9413

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Larynx
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Stomach - Forestomach

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Intestine Large	Cecum	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 3-7		
Prostate		Inflammation	Suppurative, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 1-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9414

TRT#: 1

SEX: Male

DAY ON TEST: 653

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9535

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 - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Intestine Small - Ileum	Lymph Node - Bronchial	Mammary Gland
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OBSERVATIONS

Brain	Ventricle	Dilatation	Marked
		Oligodendroglioma Benign	
[Oligodendroglioma Benign TGLS = 1-1+11]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Seminal Vesicle		Inflammation	Suppurative, Mild
Testes	Interstit Cell	Adenoma	Multiple
Thyroid Gland	C Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9415

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Skin
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pancreas
Prostate
Spleen
Thyroid Gland

OBSERVATIONS

Kidney
Larynx

Nephropathy
Foreign Body
Inflammation
Clear Cell Focus
Hyperplasia
Dilatation
Inflammation
Adenoma
Atrophy

Chronic, Mild
Mild
Suppurative, Moderate
Mild
Moderate
Minimal
Suppurative, Mild
Multiple
Moderate

Liver

Bile Duct
Glands

Nose

Testes

Interstitial Cell

Note: ADENOMA TGLs = 1,2-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9416

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 4-12		
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-8		
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 1,2-11		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9417

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10040

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	Lung
Lymph Node - Mandibular	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Moderate
Bone Marrow		Atrophy	Mild
Brain		Compression Hemorrhage	Mild Mild
Kidney Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Chronic, Marked
Larynx		Inflammation	Suppurative, Minimal
Liver Note: DEVELOP MALFOR TGLs = 2-11 Note: LIVER MASS TGL #2 IS NOT A TUMOR AND MAY REPRESENT Note: A HERNIATED LIVER THROUGH A DIAPHRAGMATIC HERNIA.	Bile Duct Hepatocyte	Developmental Malformation Hyperplasia Vacuolization Cytoplasmic	Mild Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas		Fibrosis Inflammation	Moderate Chronic, Moderate
Pituitary Gland Note: ADENOMA TGLs = 4-8	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Marked
Stomach	Forestomach	Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9417

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10040

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Glandular	Inflammation	Suppurative, Moderate
	Artery	Atrophy	Moderate
		Inflammation	Marked

Note: ATROPHY TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9418

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-8			
Prostate		Inflammation	Suppurative, Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-12+13			
Stomach	Glandular	Cyst	
	Glandular	Erosion	Mild
	Glandular	Inflammation	Chronic, Moderate
Note: CYST TGLs = 5-8			
Testes	Interstit Cell	Adenoma	
		Atrophy	Mild
Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 3-2+11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9419

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

Note: ADENOMA TGLs = 1,2-7+11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9420

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Granulomatous, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Nose	Glands	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9421

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Marked
	Ventricle	Dilatation	Marked
Note: DILATATION	TGLs = 2-1		
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Minimal
	Bile Duct	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
Nose	Glands	Dilatation	Minimal
		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Preputial Gland		Inflammation	Suppurative, Marked
Prostate		Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
Salivary Glands		Karyomegaly	Minimal
Seminal Vesicle		Inflammation	Suppurative, Mild
Testes	Interstit Cell	Adenoma	
		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9421

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10096

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9422

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10504

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	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial	Lymph Node - Mandibular
------------------------	-------------------------

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 8-5		
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Developmental Malformation	
	Bile Duct	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild

Note: LIVER MASS ON SLIDE 13 HAS ESSENTIALLY NORMAL

Note: ARCHITECTURE. I INTERPRET IT AS A DIAPHRAGMATIC

Note: HERNIATED LIVER.

Note: DEVELOP MALFOR TGLs = 6-13

Lymph Node

Note: IS SALIVARY GL.

Note: THE TRIMMER TO BE MANDIBULAR LN. WHEN IN FACT IT

Note: APPARENTLY THE TISSUE ON SL 7 WAS INTERPRETTED BY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9422

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10504

ORGAN AND ACCOUNTABLE SITE STATUS

Note: THERE ARE TWO SECTIONS OF SALIVARY GL ON SL 7.

Pituitary Gland

Pars Distalis

Adenoma

Skeletal Muscle

Diaphragm

Developmental Malformation

Note: DEVELOP MALFOR TGLs = 6-13

Testes

Interstitial Cell

Adenoma

Atrophy

Marked

Note: ADENOMA TGLs = 4-11

Note: ATROPHY TGLs = 5-7

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9423

TRT#: 1

SEX: Male

DAY ON TEST: 693

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9911

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 - Bronchial	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Epididymis

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver	Bile Duct	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Preputial Gland		Inflammation	Suppurative, Mild
Skin		Fibroma	
Note: FIBROMA	TGLs = 1-11+12+13+14+15+16		
Spleen		Hematopoietic Cell Proliferation	Marked
Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9424

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Nuclear	Mild
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 2-11]			
Mesentery		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 4-12			
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Karyomegaly	Minimal
Skin		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 1-13			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9424

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10097

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: WILL GO BACK AND REEVALUATE HYPERPLASIA IN GOBLET CELLS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9425

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10505

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	Larynx	Lymph Node - Bronchial	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Marked
	Ventricle	Dilatation	Moderate
	[Compression TGLS = 3-1]		
Kidney		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	Mild
	Bile Duct	Fibrosis	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Note: LEUKEMIA MONUC TGLs = 4-4		
Lung		Leukemia Mononuclear	
Mammary Gland		Galactocele	
	Note: GALACTOCELE TGLs = 5-7		
Nose		Foreign Body	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Note: ADENOMA TGLs = 2-8		
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate		Inflammation	Suppurative, Mild
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9425

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10505

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular

Fibrosis

Marked

Glandular

Inflammation

Chronic, Marked

Note: STEP SECTION OF STOMACH: NO ADDITIONAL LESION.

Note: FIBROSIS TGLs = 6-8

Note: INFLAMMATION TGLs = 6-8

Testes

Interstit Cell

Adenoma

Atrophy

Marked

Note: ADENOMA TGLs = 1-7

Thyroid Gland

C Cell

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9426

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Bronchial
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Preputial Gland
Skin
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Mammary Gland
Prostate
Spleen
Thyroid Gland

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

OBSERVATIONS

Heart
Kidney
Liver

Nose

Pituitary Gland
Stomach

Note: 5 STEP SECTIONS OF STOMACH: STILL NO LESION.

Testes

Note: ADENOMA TGLs = 1-7

Bile Duct

Pars Distalis

Interstit Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Foreign Body
Inflammation
Adenoma

Adenoma
Atrophy

Minimal
Chronic, Moderate
Mild
Mild
Mild
Suppurative, Minimal

Multiple
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9427

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10507

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 - Bronchial	Lymph Node - Mandibular	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Minimal
Liver		Clear Cell Focus	Moderate
	Bile Duct	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
Lung	Alveolus	Inflammation	Suppurative, Minimal
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Marked
Stomach			
Note: 5 STEP SECTION OF STOMACH: NO LESION.			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked

Note: ADENOMA TGLs = 1-7+12

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9428

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Leukemia Mononuclear Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear Nephropathy	Chronic, Moderate
Liver		Basophilic Focus Clear Cell Focus Inflammation Leukemia Mononuclear	Mild Mild Granulomatous, Moderate
Note: [CLEAR CL FOCUS] TGLs = 3-4			
Lung	Alveolus	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Mild
Lymph Node	Bronchial Mandibular	Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Stomach	Glandular Glandular Glandular	Erosion Fibrosis Inflammation	Moderate Moderate Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9428

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10508

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

Note: ADENOMA TGLs = 1-7+11

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9429

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Heart	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Mandibular	Nose	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	
		Congestion	Moderate
Intestine Large	Cecum	Hemorrhage	Marked
Note: CECUM LESION IS PROBABLY FROM INJECTION OF ANESTHETIC			
Note: HEMORRHAGE TGLs = 3-12			
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Granulomatous, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 1-11			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-8			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9430

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10510

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

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 5,6-13			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Note: ALV BRON ADEN TGLs = 4-11			
Lymph Node	Bronchial	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Skeletal Muscle	Diaphragm	Fibrosis	Moderate
Note: FIBROSIS TGLs = 3,6-12			
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-14			
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 3-4			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9430

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10510

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9431

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC	TGLs = 2-4		
Lung	Alveolus	Edema	Moderate
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Mesentery		Inflammation	Chronic, Marked
Note: INFLAMMATION	TGLs = 5-12		
Pancreas	Acinus	Atrophy	Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-11		
Stomach	Forestomach	Inflammation	Suppurative, Marked
	Forestomach	Ulcer	Moderate
Note: ULCER	TGLs = 4-8		
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9431

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9556

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Atrophy
Leukemia Mononuclear

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9432

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10511

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	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Epididymis	Lymph Node - Bronchial
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Moderate
Brain		Hemorrhage	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
Lung		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Suppurative, Mild
Stomach	Glandular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 2-8		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 9432

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10511

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9433

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Brain		Compression	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
Note: ADENOMA	TGLs = 1-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9434

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lymph Node - Bronchial	Lymph Node - Mandibular
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Esophagus	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	
	Colon	Parasite Metazoan	
Kidney	Pelvis	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Nose	Glands	Dilatation	Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Suppurative, Moderate
Seminal Vesicle		Inflammation	Suppurative, Moderate
Spleen		Leukemia Mononuclear	
Tongue		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 1-11		
Urinary Bladder		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9434

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10513

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9435

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Prostate		Inflammation	Suppurative, Moderate
Seminal Vesicle		Inflammation	Suppurative, Moderate
Testes	Interstitial Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9436

TRT#: 1

SEX: Male

DAY ON TEST: 696

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Esophagus	Parathyroid Gland	Preputial Gland	
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	Moderate
Intestine Large	Artery, Cecum	Inflammation	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
Mesentery		Fibrosis	Marked
		Inflammation	Chronic, Marked

Note: THE PANCREAS, SPLEEN AND OMENTUM WITH THROMBI AND

Note: INFARCTION IN THE SPLEEN.

Note: FIBROSIS TGLs = 3-12

Note: THE LESION DESCRIBED GROSSLY AT AREA OF SPLEEN AND

Note: PANCREAS IS THE RESULT OF AN INFARCT IN THE SPLEEN

Note: AND PERIARTERITIS OF THE ARTERIES IN THE AREA OF

Pituitary Gland	Pars Distalis	Adenoma	
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Note: ADENOMA TGLs = 4-8

Spleen		Fibrosis	Marked
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		Infarct	Marked
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Note: FIBROSIS TGLs = 2-12

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9436

TRT#: 1

SEX: Male

DAY ON TEST: 696

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9941

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Atrophy

Marked

Note: ADENOMA TGLs = 6-14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9437

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10515

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	Larynx	Lymph Node - Bronchial	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
Lung	Alveolar Epith	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 1-7			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 2-7+11			
Thyroid Gland	C Cell	Adenoma	
Trachea		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9438

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Mammary Gland	Nose	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Developmental Malformation	
	Bile Duct	Hyperplasia	Mild
Note: THE LIVER LESION TGL 3-3 IS HISTOLOGICALLY NORMAL.			
Note: IT IS APPARENTLY A LOBE OF THE LIVER HERNIATED:			
Note: DEVELOP MALFOR TGLs = 3-16			
Note: DIAPHRAGMATIC HERNIA.			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 5-7			
Skin		Fibroma	
Note: FIBROMA TGLs = 1-11+12+13+14			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 9438

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10098

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9439

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Spleen		Leukemia Mononuclear	
Testes	Interstitial Cell	Adenoma	
		Atrophy	Moderate

Note: ADENOMA TGLs = 1-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9440

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10517

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

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-11+13		
Mesentery		Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 7-11		
Nose	Glands	Dilatation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9440

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10517

ORGAN AND ACCOUNTABLE SITE STATUS

Seminal Vesicle		Inflammation	Suppurative, Moderate
Skin		Fibroma	
Note: FIBROMA	TGLs = 1-12		
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9441

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Larynx
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Moderate
Islets, Pancreatic		Carcinoma	
Kidney	Pelvis	Hyperplasia	Mild
	Pelvis	Inflammation	Suppurative, Marked
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Mild
Lung		Alveolar/Bronchiolar Adenoma	
Nose	Glands	Dilatation	Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Preputial Gland		Cyst	
		Inflammation	Suppurative, Moderate
Prostate		Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 3-8		
Seminal Vesicle		Inflammation	Suppurative, Marked
Stomach	Forestomach	Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9441

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10034

ORGAN AND ACCOUNTABLE SITE STATUS

Testes		Atrophy	Moderate
	Artery	Inflammation	Moderate
Urinary Bladder		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: ARE SUGGESTIVE BUT NOT DIAGNOSTIC OF LEUKEMIA.

Animal Note: THIS RAT HAS LESIONS IN THE SPLEEN AND LIVER THAT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9442

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Bronchial	Lymph Node - Mandibular	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Heart	Atrium	Dilatation	Marked
Note: DILATATION	TGLs = 3-12		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Developmental Malformation	
Note: LIVER THROUGH A DIAPHRAGMATIC HERNIA.			
Note: DEVELOP MALFOR	TGLs = 5-13		
Note: LIVER MASS TGL 5-13 IS HISTOLOGICALLY NORMAL.			
Note: IT APPARENTLY REPRESENTS A HERNIATED PORTION OF			
Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Infiltration Cellular	Histiocyte, Mild
Note: ALV BRON CARC	TGLs = 4-11		
Nose	Respirat Epith	Hyperplasia	Focal, Mild
		Inflammation	Suppurative, Moderate
		Sarcoma	
Note: THERE IS A LARGE SPINDLE CELL TUMOR IN THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9442

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10518

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SUBMUCOSA OF THE MIDDLE SECTION OF NOSE. DIAGNOSIS

Note: IS SARCOMA NOS.

Pancreas	Acinus	Atrophy	Moderate
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Skin		Trichoepithelioma	
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Note: TRICHOEPITHEL TGLs = 1-14

Testes	Artery	Inflammation	Moderate
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PRIMARY CAUSE OF DEATH

-

Animal Note: DIAGNOSTIC FOR LEUKEMIA.

Animal Note: LIVER AND SPLEEN ARE SUGGESTIVE BUT NOT

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9443

TRT#: 1

SEX: Male

DAY ON TEST: 679

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 9713

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
Larynx	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Mammary Gland	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	Marked
	Ventricle	Dilatation	Moderate
		Gliosis	Minimal
Note: DILATATION	TGLs = 2-1+11		
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Prostate		Inflammation	Suppurative, Moderate
Seminal Vesicle		Inflammation	Suppurative, Mild
Stomach	Forestomach	Acanthosis	Marked
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Suppurative, Moderate
Note: ACANTHOSIS	TGLs = 3-8		
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9444

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 1-11		
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ATROPHY	TGLs = 2-7		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9445

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10520

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	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Moderate
Liver		Clear Cell Focus	Mild
		Inflammation	Granulomatous, Mild
		Neoplastic Nodule	

Note: LIVER AND SPLEEN HAVE LESIONS THAT ARE SUGGESTIVE

Note: BUT NOT DIAGNOSTIC FOR LEUKEMIA.

[Inflammation TGLS = 1-11]

Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Cyst	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild

Note: ADENOMA TGLs = 2-7

Thyroid Gland	Follicular Cel	Cyst	Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9446

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10100

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

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
Note: BASOPH FOCUS	TGLs = 3-4+11		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-13+14		
Nose	Glands	Dilatation	Mild
Skin		Fibroma	
Note: FIBROMA	TGLs = 1-15+16+17+18		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 4-7+12		
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9446

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10100

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9447

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10521

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
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	Multiple
	Cortex	Vacuolization Cytoplasmic	Mild
Epididymis		Mesothelioma Malignant	
Note: [MESOTHELIO MAL]	TGLs = 3-7		
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Moderate
Liver		Angiectasis	Moderate
		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
Note: BASOPH FOCUS	TGLs = 6-11		
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-8		
Prostate		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9447

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10521

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 1-13		
Testes	Interstit Cell	Adenoma	
	Artery	Atrophy	Moderate
		Inflammation	Mild
		Mesothelioma Malignant	
Note: [MESOTHELIO MAL]	TGLs = 4-7+12		
Note: ADENOMA	TGLs = 4-7		
Thyroid Gland	C Cell	Adenoma	Multiple
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9448

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10041

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	Larynx	Mammary Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye	Lens	Cataract	Moderate
		Leukemia Mononuclear	
Note: CATARACT	TGLs = 5-11		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Note: LEUKEMIA MONUC	TGLs = 7-7		
Note: LEUKEMIA MONUC	TGLs = 3-14		
Nose		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Parathyroid Gland		Leukemia Mononuclear	
Preputial Gland		Adenoma	
		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9448

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10041

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 6-7		
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Stomach		Inflammation	Suppurative, Moderate
		Forestomach	
		Forestomach	
		Glandular	
Note: LEUKEMIA MONUC	TGLs = 9-8		
Testes		Adenoma	Multiple
		Atrophy	Marked
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 8-7		
Thymus		Leukemia Mononuclear	
Thyroid Gland		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9449

TRT#: 1

SEX: Male

DAY ON TEST: 714

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10051

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	Larynx	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 8-5+13			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-11			
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-3			
Note: LEUKEMIA MONUC TGLs = 2-14			
Nose		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 4-8			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9449

TRT#: 1

SEX: Male

DAY ON TEST: 714

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 10051

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA	TGLs = 9-7		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Carcinoma	
		Leukemia Mononuclear	
[Carcinoma TGLS = 3-2]			
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9450

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 10522

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

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver		Angiectasis	Mild
		Basophilic Focus	Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Note: [EOSIN FOCUS] TGLs = 3-11			
Skin		Fibroma	
Note: FIBROMA TGLs = 2-12+13			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7151

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10642

OBSERVATIONS

Kidney [Nephropathy TGLS = 1-5]		Nephropathy	Chronic, Marked
Lymph Node Note: HYPERPLASIA TGLs = 2-11	Mediastinal	Hyperplasia	Moderate
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
Pituitary Gland Note: ADENOMA TGLs = 3-8	Respirat Epith Pars Distalis	Metaplasia Adenoma	Squamous, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7152

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10643

OBSERVATIONS

Liver
[Developmental Malformation TGLS = 4-11]

Developmental Malformation

Mammary Gland
[Fibroadenoma TGLS = 1-12]

Fibroadenoma

Nose
Pituitary Gland
Note: ADENOMA TGLs = 2-8

Glands
Pars Distalis

Dilatation
Adenoma

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7153

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Lung

Nose

OBSERVATIONS

Liver

Inflammation

Granulomatous, Moderate

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7154

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7155

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10646

OBSERVATIONS

Nose

Glands

Dilatation

Marked

Dilatation

Marked

Foreign Body

Mild

Respirat Epith

Hyperplasia

Mild

Inflammation

Suppurative, Moderate

Note: BODY IN THE MOST CAUDAL SECTION OF THE NOSE.

Note: THE NOSE LESIONS ARE SURROUNDING THE FOREIGN

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 2-8]

Uterus

Dilatation

Moderate

Note: DILATATION TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7156

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Developmental Malformation	
		Leukemia Mononuclear	
Note: OF A DIAPHRAGMATIC HERNIA.			
Note: DEVELOP MALFOR TGLs = 2-11			
Note: THE LIVER LESION IN SLIDE 11 LOOKS LIKE THE RESULT OF			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-12+13+14			
Nose	Glands	Dilatation	Minimal
	Respirat Epith	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7156

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11574

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7157

TRT#: 4

DOSE: 1.5MG/M3 FEMALE

SEX: Female

DISP: Dead

DAY ON TEST: 524

HISTO: 8669

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 - Bronchial	Lymph Node - Mandibular	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Marked
	Cortex	Vacuolization Cytoplasmic	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx	Epithelium	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Liver	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lung	Alveolus	Edema	Marked
		Foreign Body	Marked
	Alveolus	Inflammation	Suppurative, Marked
	Bronchiole	Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 2-3		
Nose		Inflammation	Suppurative, Marked
Trachea		Inflammation	Suppurative, Moderate
Uterus		Leiomyoma	
Note: LEIOMYOMA	TGLs = 1-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7158

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10647

OBSERVATIONS

Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 3-4]			
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Skin		Fibroma	
Note: FIBROMA	TGLs = 1-11		
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7159

TRT#: 4

SEX: Female

DAY ON TEST: 679

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Ovary	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Clitoral Gland	Lymph Node - Mandibular
----------------	-------------------------

OBSERVATIONS

Brain		Compression	Moderate
Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 1-11		
Kidney		Nephropathy	Chronic, Marked
Liver	Bile Duct	Basophilic Focus	Moderate
		Hyperplasia	Mild
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Mammary Gland		Galactocele	
Nose	Glands	Dilatation	Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA]	TGLs = 2-8		
Skin		Inflammation	Suppurative, Mild
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7160

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Eye

Lens

Cataract

Mild

[Cataract TGLS = 2-11]

Ovary

Granulosa Cell Tumor Nos

[Granulosa Cell Tumor Nos TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7161

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple, Moderate
		Hyperplasia	Focal, Moderate
Note: [HYPERPLASIA] TGLs = 3-4			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-11+12			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7162

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10649

OBSERVATIONS

Nose

Respirat Epith

Foreign Body

Hyperplasia

Inflammation

Mild

Mild

Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7163

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Liver

Basophilic Focus

Mild

Clear Cell Focus

Minimal

Developmental Malformation

Bile Duct

Hyperplasia

Mild

Inflammation

Granulomatous, Mild

[Developmental Malformation TGLS = 4,5-11+12]

Mammary Gland

Adenocarcinoma

Note: ADENOCARC TGLs = 2-7

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 3-8

Skeletal Muscle

Diaphragm

Developmental Malformation

Note: DEVELOP MALFOR TGLs = 1-11+12

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7164

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Clitoral Gland

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 1-7

Liver

Eosinophilic Focus

Moderate

Leukemia Mononuclear

Note: [EOSIN FOCUS] TGLs = 6-11

Lung

Alveolus

Infiltration Cellular

Histiocyte, Marked

Leukemia Mononuclear

Note: INFILTRAT CELL TGLs = 5-3

[Leukemia Mononuclear TGLS = 4,5-3]

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 3-8

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-4]

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 7-12

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7165

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11577

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11+12+13+14		
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-4		
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7165

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11577

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7166

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Bone Marrow		Leukemia Mononuclear	
Brain		Compression	Moderate
Clitoral Gland		Hyperplasia	Marked
		Inflammation	Suppurative, Marked
Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 1-13		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Inflammation	Chronic, Moderate
Larynx		Inflammation	Chronic, Minimal
Liver		Developmental Malformation	
	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
Note: AS BEING THE RESULT OF A DIAPHRAGMATIC HERINA.			
Note: DEVELOP MALFOR	TGLs = 2,3-11+12		
Note: LESIONS ON SLIDE 11 AND 12 FROM THE LIVER ARE INTERPRETED			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Nose	Glands	Dilatation	Minimal
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7166

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11578

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 5-8

Skin

Fibrous Histiocytoma

Note: FIB HISTIOCYT

TGLs = 6,7-14+15

Spleen

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7167

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10652

OBSERVATIONS

Liver [Developmental Malformation TGLS = 1,2-11+12] Developmental Malformation

Nose Glands Dilatation Minimal

Pituitary Gland Pars Distalis Foreign Body Mild

Note: [ADENOMA] TGLs = 3,4-8 Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7168

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10653

OBSERVATIONS

Nose

Inflammation

Suppurative, Moderate

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7169

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10654

OBSERVATIONS

Nose

Respirat Epith

Hyperplasia

Minimal

Nasolacrim Dct

Inflammation

Suppurative, Mild

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7170

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Liver		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 2-4]		
Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLS = 1-8]		
Spleen		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7171

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10656

OBSERVATIONS

Nose

Inflammation

Suppurative, Minimal

Note: SECTION AND IS FOCAL.

Note: INFLAMMATION IN THE NOSE IS IN THE MOST CAUDAL

Spleen

Developmental Malformation

[Developmental Malformation TGLS = 1-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7172

TRT#: 4

SEX: Female

DAY ON TEST: 623

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Moderate
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Adenoma	
Uterus		Inflammation	Suppurative, Marked
		Prolapse	Marked

Note: PROLAPSE TGLs = 1-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7173

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Clitoral Gland

Adenoma

Inflammation

Suppurative, Marked

[Adenoma TGLS = 1-12]

[Inflammation TGLS = 1-12]

Liver

Developmental Malformation

[Developmental Malformation TGLS = 2-11]

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7174

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10658

OBSERVATIONS

Nose

Glands

Dilatation

Minimal

Respirat Epith

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7175

TRT#: 4

SEX: Female

DAY ON TEST: 581

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 9108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Mammary Gland	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex Cortex Medulla	Hemorrhage Leukemia Mononuclear Leukemia Mononuclear	Marked
Note: HEMORRHAGE TGLs = 3-5			
Bone Marrow		Leukemia Mononuclear	
Eye	Lens	Cataract	Mild
Note: CATARACT TGLs = 5-12			
Kidney		Leukemia Mononuclear Nephropathy	Chronic, Mild
Note: LEUKEMIA MONUC TGLs = 2-5			
Liver	Bile Duct	Hyperplasia Leukemia Mononuclear Leukemia Mononuclear	Mild
Lung			
Note: LEUKEMIA MONUC TGLs = 4-3			
Lymph Node	Bronchial Mandibular	Leukemia Mononuclear Leukemia Mononuclear	
Nose	Glands Respirat Epith	Dilatation Hyperplasia	Mild Moderate
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Marked
Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7175

TRT#: 4

SEX: Female

DAY ON TEST: 581

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 9108

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-8

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7176

TRT#: 4

SEX: Female

DAY ON TEST: 553

DOSE: 1.5MG/M3 FEMALE

DISP: Dead

HISTO: 8999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Heart	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7177

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10659

OBSERVATIONS

Mammary Gland

[Fibroadenoma TGLS = 1-11]

Fibroadenoma

Nose

Inflammation

Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7178

TRT#: 4

SEX: Female

DAY ON TEST: 528

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 8677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Marked
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Granulomatous, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Lymph Node	Mandibular	Hyperplasia	Moderate
Nose	Glands	Dilatation	Mild
Pituitary Gland		Cyst	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Zymbal's Gland		Squamous Cell Carcinoma	

Note: SQUAM CEL CARC TGLs = 1-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7179

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-11]

Pituitary Gland

Cyst

[Cyst TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7180

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7181

TRT#: 4

SEX: Female

DAY ON TEST: 720

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11580

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Larynx		Inflammation	Chronic, Mild
Liver		Leukemia Mononuclear	
		Necrosis	Moderate
Note: LEUKEMIA MONUC	TGLs = 2-4		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-7		
Mammary Gland		Hyperplasia	Mild
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-8		
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7181

TRT#: 4

SEX: Female

DAY ON TEST: 720

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11580

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7182

TRT#: 4

SEX: Female

DAY ON TEST: 126

DOSE: 1.5MG/M3 FEMALE

DISP: Dead

HISTO: 5467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Heart
Islets, Pancreatic	Larynx	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Adrenal Gland - Medulla	Intestine Large - Cecum
-------------------------	-------------------------

AUTO PRECLUDES DIAG.

Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear
Bone Marrow		Leukemia Mononuclear
Brain		Leukemia Mononuclear
Kidney		Leukemia Mononuclear
Liver		Leukemia Mononuclear
Lung		Leukemia Mononuclear
Lymph Node	Bronchial	Leukemia Mononuclear
	Mandibular	Leukemia Mononuclear
	Mesenteric	Leukemia Mononuclear
	Renal	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-3
 Note: LEUKEMIA MONUC TGLs = 2-7+13
 Note: LEUKEMIA MONUC TGLs = 3-11
 Note: LEUKEMIA MONUC TGLs = 4-12

Ovary		Leukemia Mononuclear
Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 5-4		
Thymus		Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:46
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 7182

TRT#: 4

SEX: Female

DAY ON TEST: 126

DOSE: 1.5MG/M3 FEMALE

DISP: Dead

HISTO: 5467

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7183

TRT#: 4

SEX: Female

DAY ON TEST: 535

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 8696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial	Parathyroid Gland
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx	Epithelium	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Liver		Leukemia Mononuclear	
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Note: ATROPHY	TGLs = 3-11		
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 2-8		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-11		
Thymus		Leukemia Mononuclear	
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7184

TRT#: 4

DOSE: 1.5MG/M3 FEMALE

SEX: Female

DISP: Moribund

DAY ON TEST: 714

HISTO: 11581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Marked
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: BASOPH FOCUS	TGLs = 3,4-11+12		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13+14		
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-4		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7185

TRT#: 4

SEX: Female

DAY ON TEST: 553

DOSE: 1.5MG/M3 FEMALE

DISP: Dead

HISTO: 9000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Brain		Compression	Marked, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Developmental Malformation	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Inflammation	Granulomatous, Mild
		Vacuolization Cytoplasmic	Mild
Note: I ASSUME IT IS THE RESULT OF A DIAPHRAGMATIC HERNIA.			
Note: LIVER MASS ON SLIDE 11 IS NORMAL HISTOLOGICALLY.			
[Inflammation TGLS = 2,3-11]			
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Ulcer	Mild
Note: ULCER	TGLs = 5,6,7,8-8+12+13		
Note: ACANTHOSIS	TGLs = 5,6,7,8-8+12+13		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7186

TRT#: 4

SEX: Female

DAY ON TEST: 430

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 7888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

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

Bone
Esophagus
Intestine Small - Duodenum
Kidney
Lymph Node - Bronchial
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Larynx
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Intestine Large - Cecum

OBSERVATIONS

Nose
Pituitary Gland
Uterus

Respirat Epith
Pars Distalis
Endometrium

Hyperplasia
Adenoma
Hemorrhage
Hyperplasia
Inflammation

Mild
Marked
Moderate
Suppurative, Mild

Note: HYPERPLASIA TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7187

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Pituitary Gland

OBSERVATIONS

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-12+13]

Nose

Glands

Dilatation

Minimal

Respirat Epith

Hyperplasia

Minimal

Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 2-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7188

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7189

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10664

OBSERVATIONS

Nose

Respirat Epith

Foreign Body

Mild

Hyperplasia

Moderate

Inflammation

Suppurative, Moderate

Respirat Epith

Metaplasia

Squamous, Moderate

Note: ASSOCIATED WITH THE FOREIGN BODIES.

Note: THREE SECTIONS, THERE ARE LESIONS THAT ARE NOT

Note: THE LESIONS IN THE NOSE IN THIS ANIMAL ARE NOT

Note: NECESSARILY RELATED TO THE FOREIGN BODY ALTHOUGH

Note: THERE ARE FOREIGN BODY PARTICULATES IN ALL

Pituitary Gland

Cyst

[Cyst TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7190

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7191

TRT#: 4

DOSE: 1.5MG/M3 FEMALE

SEX: Female

DISP: Moribund

DAY ON TEST: 679

HISTO: 11582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC TGLs = 5-5			
Eye	Lens	Cataract	Moderate
Note: CATARACT TGLs = 6-16			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Angiectasis	Marked
		Basophilic Focus	Moderate
		Developmental Malformation	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: DEVELOP MALFOR TGLs = 3-15			
Note: LIVER LESION ON SLIDE 15 LOOKS LIKE A DIAPHRAGMATIC			
Note: LEUKEMIA MONUC TGLs = 4-4			
Note: HERNIA.			
[Leukemia Mononuclear TGLs = 8-17]			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-11+12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7191

TRT#: 4

SEX: Female

DAY ON TEST: 679

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11582

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Glands	Dilatation	Minimal
		Foreign Body	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2,7-13+14		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7192

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Eye

Lens

Cataract

Mild

[Cataract TGLS = 1-11]

Kidney

Nephropathy

Chronic, Moderate

[Nephropathy TGLS = 3-5]

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7193

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Clitoral Gland		Carcinoma
[Carcinoma TGLS = 1-11+12+13+14]		
Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLS = 4-8]		
Uterus	Endometrium	Polyp Stromal
[Polyp Stromal TGLS = 3-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7194

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7195

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	Marked
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Note: ALV BRON ADEN	TGLs = 5-15		
Note: LEUKEMIA MONUC	TGLs = 3-3		
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-13+14		
Note: ADENOCARC	TGLs = 1-11+12		
Pituitary Gland	Pars Distalis	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7195

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11583

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 4-8+1

Spleen

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Mild

Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7196

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10669

OBSERVATIONS

Adrenal Gland

Cortex

Leukemia Mononuclear

Medulla

Leukemia Mononuclear

Cortex

Vacuolization Cytoplasmic

Mild

Note: LEUKEMIA MONUC TGLs = 4-5

Note: LEUKEMIA MONUC TGLs = 4-5

Islets, Pancreatic

Adenoma

Multiple

Liver

Leukemia Mononuclear

Hepatocyte

Vacuolization Cytoplasmic

Marked

Note: VACUOLIZ CYTO TGLs = 3-4

[Leukemia Mononuclear TGLs = 3-4]

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-11

Nose

Inflammation

Suppurative, Mild

Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7197

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1.5MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Nose

OBSERVATIONS

Eye

Lens

Cataract

Mild

Note: CATARACT

TGLs = 1-11

Liver

Basophilic Focus

Mild

Clear Cell Focus

Marked

Inflammation

Granulomatous, Mild

Necrosis

Mild

[Clear Cell Focus TGLS = 2-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7198

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Brain		Compression	Moderate
	Ventricle	Dilatation	Mild
Clitoral Gland		Inflammation	Suppurative, Moderate
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Minimal
Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
		Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: NECROSIS TGLs = 2-4+11			
Note: VACUOLIZ CYTO TGLs = 3-11			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Nose	Respirat Epith	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-8			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7198

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11584

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7199

TRT#: 4

SEX: Female

DAY ON TEST: 720

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Mammary Gland
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone		Leukemia Mononuclear	
Bone Marrow		Fibrosis	Moderate
		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-4+13		
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2+3		
Note: LEUKEMIA MONUC	TGLs = 1-7		
	[Leukemia Mononuclear TGLS = 5-3]		
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7199

TRT#: 4

SEX: Female

DAY ON TEST: 720

DOSE: 1.5MG/M3 FEMALE

DISP: Moribund

HISTO: 11585

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-8

Note: ADENOMA TGLs = 6-8

Spleen

Fibrosis

Moderate

Leukemia Mononuclear

Note: FIBROSIS TGLs = 2-11

Note: LEUKEMIA MONUC TGLs = 2-4

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7200

TRT#: 4

SEX: Female

DAY ON TEST: 651

DOSE: 1.5MG/M3 FEMALE

DISP: Dead

HISTO: 11586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Intestine Small - Jejunum
-------------------------	-------------------------	---------------------------

OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Marked
Brain		Glioma Nos	Marked
Heart	Artery	Mineralization	Marked
		Mineralization	Marked
	Myocardium	Necrosis	Marked
Kidney		Mineralization	Marked
		Nephropathy	Chronic, Marked
Larynx		Mineralization	Marked
Liver		Developmental Malformation	
Note: DEVELOP MALFOR TGLs = 2-11			
Lung		Mineralization	Marked
Nose	Glands	Dilatation	Mild
Parathyroid Gland		Hyperplasia	Moderate
Spleen		Fibrosis	Marked
		Pigmentation	Marked
Note: PIGMENT IS HEMOSIDERIN.			
Note: FIBROSIS TGLs = 1-4			
Stomach	Glandular	Mineralization	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8151

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Mammary Gland
Salivary Glands
Stomach - Glandular
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Skin
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Bronchial
Pancreas
Spleen
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Cortex

Vacuolization Cytoplasmic
Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Inflammation
Dilatation
Adenoma

Mild
Minimal
Chronic, Moderate
Mild
Mild
Granulomatous, Mild
Minimal

Nose
Pituitary Gland
Thyroid Gland

Glands
Pars Distalis

Hyperplasia

Mild

Note: ADENOMA TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8152

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Salivary Glands
Stomach - Glandular
Uterus

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

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Larynx
Liver

Cardiomyopathy
Nephropathy
Inflammation
Basophilic Focus
Inflammation
Fibroadenoma

Minimal
Chronic, Moderate
Suppurative, Minimal
Mild
Suppurative, Mild

Mammary Gland

Note: FIBROADENOMA TGLs = 1-11

Nose

Glands

Dilatation

Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 2-8

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8153

TRT#: 6

DOSE: 5.0MG/M3 FEMALE

SEX: Female

DISP: Moribund

DAY ON TEST: 615

HISTO: 9402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Mammary Gland	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC	TGLs = 2-5		
Heart		Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Leukemia Mononuclear	
		Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 1-4		
Lung	Bronchus	Carcinoma	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Minimal
Ovary		Leukemia Mononuclear	
Pancreas		Fibrosis	Moderate
		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Acanthosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8153

TRT#: 6

SEX: Female

DAY ON TEST: 615

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9402

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Hyperkeratosis

Mild

Forestomach

Inflammation

Suppurative, Moderate

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8154

TRT#: 6

SEX: Female

DAY ON TEST: 654

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9542

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
Mammary Gland	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	Moderate
Kidney		Nephropathy	Chronic, Moderate
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC	TGLs = 3-4		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 2-8		
Spleen		Fibrosis	Marked
		Infarct	Mild
		Leukemia Mononuclear	
Note: INFARCT	TGLs = 4,5-11		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8154

TRT#: 6

SEX: Female

DAY ON TEST: 654

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9542

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1,5-4+11+12

Thymus

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8155

TRT#: 6

SEX: Female

DAY ON TEST: 637

DOSE: 5.0MG/M3 FEMALE

DISP: Dead

HISTO: 9470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Large - Rectum	Larynx	Parathyroid Gland	Salivary Glands
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Skin

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Islets, Pancreatic		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC	TGLs = 3-4		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-3		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 5-11		
Nose	Glands	Dilatation	Mild
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8155

TRT#: 6

SEX: Female

DAY ON TEST: 637

DOSE: 5.0MG/M3 FEMALE

DISP: Dead

HISTO: 9470

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4-8

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-4

Stomach

Forestomach

Acanthosis

Mild

Forestomach

Inflammation

Suppurative, Mild

Thymus

Leukemia Mononuclear

Uterus

Dilatation

Mild

Note: DILATATION TGLs = 6-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8156

TRT#: 6

DOSE: 5.0MG/M3 FEMALE

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 10588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Compression	Mild
		Glioma Nos	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Moderate
Lung		Foreign Body	Mild
		Inflammation	Granulomatous, Marked
Note: INFLAMMATION	TGLs = 3-3+11		
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 1-12		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8157

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10592

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	Lymph Node - Mandibular
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Larynx	Epithelium	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Liver		Inflammation	Granulomatous, Moderate
Lung	Alveolus	Inflammation	Suppurative, Mild
Nose	Glands	Dilatation	Mild
		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8158

TRT#: 6

SEX: Female

DAY ON TEST: 581

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node - Bronchial	Mammary Gland
Salivary Glands	Skin	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
	Artery	Inflammation	Moderate
Intestine Large	Artery, Cecum	Inflammation	Marked
Intestine Small	Artery, Ileum	Inflammation	Marked
	Artery, Jejunum	Inflammation	Marked
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 5-5		
Larynx		Inflammation	Chronic, Moderate
Liver		Hematopoietic Cell Proliferation	Moderate
	Artery	Inflammation	Marked
		Inflammation	Granulomatous, Marked
Note: INFLAMMATION	TGLs = 4-4		
Lung	Artery	Inflammation	Marked
Lymph Node	Mandibular	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 1-7		
Nose	Glands	Dilatation	Minimal
Ovary		Cyst	
		Inflammation	Chronic, Marked
Note: CYST	TGLs = 2-7		
Pancreas	Artery	Inflammation	Marked
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: [ANGIECTASIS]	TGLs = 7-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8158

TRT#: 6

SEX: Female

DAY ON TEST: 581

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9107

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Developmental Malformation	
	Artery, Glandular	Inflammation	Marked
	Forestomach	Inflammation	Suppurative, Moderate

Note: DEVELOP MALFOR TGLs = 8-8

Note: INFLAMMATION TGLs = 9-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8159

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Stomach - Glandular
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Skin
Trachea

OBSERVATIONS

Heart

Cardiomyopathy
Leukemia Mononuclear

Mild

Kidney

Leukemia Mononuclear
Nephropathy

Chronic, Mild

Liver

Developmental Malformation
Eosinophilic Focus
Hyperplasia
Leukemia Mononuclear
Mixed Cell Focus

Multiple
Mild

Bile Duct

Note: [EOSIN FOCUS] TGLs = 4,7-11+12

Note: DEVELOP MALFOR TGLs = 3-13+14

Lung

Alveolus

Infiltration Cellular
Leukemia Mononuclear

Histiocyte, Moderate

Note: LEUKEMIA MONUC TGLs = 5-3+11

Lymph Node

Bronchial
Mandibular
Respirat Epith

Leukemia Mononuclear
Leukemia Mononuclear
Hyperplasia

Minimal

Nose

Pancreas

Pituitary Gland

Pars Distalis

Leukemia Mononuclear
Hyperplasia

Mild

Note: [HYPERPLASIA] TGLs = 8-8

Skeletal Muscle

Diaphragm

Developmental Malformation

Note: DEVELOP MALFOR TGLs = 2-14

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8159

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10589

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Fibrosis

Marked

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-4

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8160

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Bronchial
Pancreas
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8161

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Moderate
Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 1,2-11		
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 5-5+12		
Larynx		Inflammation	Suppurative, Mild
Liver		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 3,4-14+15		
Mesentery		Inflammation	Chronic, Marked
Note: INFLAMMATION	TGLs = 6-13		
Nose	Glands	Dilatation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 8-8		
Stomach	Forestomach	Acanthosis	Marked
	Forestomach	Inflammation	Suppurative, Moderate
Note: ACANTHOSIS	TGLs = 10-8		
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 7-2]			
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 9-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8161

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10591

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8162

TRT#: 6

SEX: Female

DAY ON TEST: 657

DOSE: 5.0MG/M3 FEMALE

DISP: Dead

HISTO: 9545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Lymph Node - Bronchial	Mammary Gland	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	

MISSING

Islets, Pancreatic	Pancreas
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AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Larynx	Liver	Lymph Node - Mandibular
Nose	Ovary	Spleen	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
		Mineralization	Marked
Kidney	Pelvis	Dilatation	Marked
		Mineralization	Marked
Note: DILATATION TGLs = 3-5			
Lung		Mineralization	Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-8			
Stomach	Glandular	Mineralization	Marked
Uterus		Carcinoma	
Note: CARCINOMA TGLs = 1-11			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8163

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Developmental Malformation	
		Inflammation	Granulomatous, Minimal

Note: LIVER LESION IS PROBABLY THE RESULT OF A

Note: DEVELOP MALFOR TGLs = 1-11

Note: DIAPHRAGMATIC HERNIA.

Lung	Alveolus	Inflammation	Suppurative, Minimal
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8164

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 10059

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 - Bronchial	Lymph Node - Mandibular	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney		Mineralization	Mild
		Nephropathy	Chronic, Moderate
Lacrimal Gland		Degeneration	Moderate
		Inflammation	Chronic, Moderate
Note: DEGEN TGLs = 4-12			
Larynx		Inflammation	Suppurative, Minimal
Liver		Basophilic Focus	Mild
		Developmental Malformation	
		Inflammation	Granulomatous, Moderate
Note: LIVER LESION IS PROBABLY FROM A DIAPH HERNIA.			
Note: DEVELOP MALFOR TGLs = 2-11			
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 1,6-13+14+15+16+17			
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-8			
Thyroid Gland	C Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8165

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Parathyroid Gland
Stomach - Glandular

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Skin
Trachea

OBSERVATIONS

Bone Marrow
Heart
Kidney
Larynx
Liver

Hyperplasia
Cardiomyopathy
Nephropathy
Inflammation
Basophilic Focus
Inflammation

Moderate
Mild
Chronic, Mild
Chronic, Mild
Mild
Granulomatous, Mild

Note: INFLAMMATION TGLs = 1-11

Lung
Nose

Pancreas
Pituitary Gland
Spleen
Thyroid Gland
Uterus

Alveolus
Glands
Respirat Epith
Acinus
Pars Distalis

C Cell
Endometrium

Inflammation
Dilatation
Hyperplasia
Atrophy
Adenoma
Hematopoietic Cell Proliferation
Carcinoma
Polyp Stromal

Suppurative, Mild
Minimal
Minimal
Mild

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8166

TRT#: 6

SEX: Female

DAY ON TEST: 622

DOSE: 5.0MG/M3 FEMALE

DISP: Dead

HISTO: 9422

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

Larynx

Lymph Node - Mandibular

Ovary

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Clitoral Gland

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Liver

Lung

Lymph Node - Bronchial

Mammary Gland

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8167

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10595

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 - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hemorrhage	Mild
Brain		Compression	Moderate
Intestine Small	Ileum	Adenocarcinoma	
Note: ADENOCARC	TGLs = 2-11		
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Chronic, Mild
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 4-3		
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8168

TRT#: 6

SEX: Female

DAY ON TEST: 572

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Mild
Blood		Neutrophilia	Marked
Note: THERE IS A NEUTROPHILIC LEUKCYTOSIS IN ALL THE Note: VESSELES AND ALL THE ORGANS.			
Heart		Thrombosis	Moderate
Note: THROMBUS TGLs = 2-4			
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Suppurative, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO TGLs = 3-4			
Nose	Glands	Dilatation	Minimal
Pituitary Gland		Cyst	
Note: CYST TGLs = 1-8			
Stomach	Glandular	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8169

TRT#: 6

SEX: Female

DAY ON TEST: 356

DOSE: 5.0MG/M3 FEMALE

DISP: Dead

HISTO: 6990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Clitoral Gland	Heart	Mammary Gland
Skin			

MISSING

Islets, Pancreatic	Lymph Node - Bronchial	Pancreas	Parathyroid Gland
Thyroid Gland			

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	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	Kidney
Larynx	Liver	Lung	Lymph Node - Mandibular
Nose	Ovary	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8170

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10596

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	Lymph Node - Bronchial
Lymph Node - Mandibular	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Chronic, Minimal
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Mild
Lung	Alveolar Epith	Hyperplasia	Minimal
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8171

TRT#: 6

SEX: Female

DAY ON TEST: 644

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 1-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8172

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Clitoral Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL	TGLs = 2-4		
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 1-7+11+12		
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation	Marked
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8173

TRT#: 6

DOSE: 5.0MG/M3 FEMALE

SEX: Female

DISP: Moribund

DAY ON TEST: 715

HISTO: 10060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1-5			
Larynx		Inflammation	Suppurative, Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mandibular	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-5			
Nose	Glands	Dilatation	Moderate
		Foreign Body	Mild
		Inflammation	Suppurative, Marked
	Respirat Epith	Metaplasia	Squamous, Moderate
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 3-8			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8174

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Pancreas
Stomach - Forestomach
Urinary Bladder

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

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thymus

OBSERVATIONS

Brain
Heart

Kidney
Larynx
Liver

Note: LIVER MASSES ARE INTERPRETTED AS BEING DUE TO
Note: DIAPHRAGMATIC HERNIA.
Note: DEVELOP MALFOR TGLs = 2,4-11+12

Lung
Nose
Pituitary Gland
Note: [ADENOMA] TGLs = 3-8
Spleen
Thyroid Gland

Compression
Cardiomyopathy
Thrombosis
Nephropathy
Inflammation
Basophilic Focus
Developmental Malformation
Leukemia Mononuclear

Leukemia Mononuclear
Dilatation
Adenoma

Leukemia Mononuclear
Adenoma

Moderate
Mild

Chronic, Moderate
Suppurative, Moderate
Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8175

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Bone			
Note: THE SKULL IS HISTOLOGICALLY WITHIN NORMAL LIMITS			
Kidney		Nephropathy	Chronic, Moderate
Liver			
Note: WITHIN NORMAL LIMITS.			
Note: LIVER LESION ON SLIDE 11 IS HISTOLOGICALLY			
Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
Parathyroid Gland		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8176

TRT#: 6

DOSE: 5.0MG/M3 FEMALE

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 10600

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 - Bronchial	Lymph Node - Mandibular	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Moderate
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 4-5		
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Moderate
		Leukemia Mononuclear	
		Neoplastic Nodule	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC	TGLs = 3-4		
[Basophilic Focus TGLS = 2-11]			
Nose		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-8		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8177

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-4		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,2-4+11		
Thymus		Leukemia Mononuclear	
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4-12		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8178

TRT#: 6

SEX: Female

DAY ON TEST: 662

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9557

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Oligodendroglioma Malignant	
Note: [OLIGODENDR MAL] TGLs = 2-1			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Nose	Respirat Epith	Hyperplasia	Minimal
	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8179

TRT#: 6

SEX: Female

DAY ON TEST: 622

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11+12		
Nose	Glands	Dilatation	Mild
Ovary		Cyst	
Note: CYST	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA]	TGLs = 6-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8180

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10602

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 - Bronchial	Lymph Node - Mandibular	Ovary
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Mild
		Thrombosis	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
		Fibroadenoma	
Mammary Gland			
Note: FIBROADENOMA	TGLs = 1-11		
Nose	Glands	Dilatation	Minimal
	Respirat Epith	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8181

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11+12+13+14		
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8182

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Intestine Large	Colon	Hemorrhage	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13+14		
Nose	Glands	Dilatation	Minimal
	Respirat Epith	Hyperplasia	Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 3-4+11		
Vagina		Inflammation	Suppurative, Moderate
Note: INFLAMMATION	TGLs = 2-12		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8183

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10604

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	Lymph Node - Bronchial
Lymph Node - Mandibular	Mammary Gland	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Intestine Small	Muscularis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-11			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-5+12			
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Mild
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-8			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8184

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10605

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 - Bronchial	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	Thrombosis	
	Cortex	Vacuolization Cytoplasmic	Moderate
Clitoral Gland		Inflammation	Suppurative, Moderate
Heart		Cardiomyopathy	Mild
Kidney		Mineralization	Mild
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 1-5		
Larynx		Foreign Body	Mild
		Inflammation	Suppurative, Minimal
Liver		Inflammation	Granulomatous, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8185

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Bronchial
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Salivary Glands
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Larynx
Mammary Gland
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Spleen
Trachea

OBSERVATIONS

Adrenal Gland
Kidney
Liver

Cortex

Vacuolization Cytoplasmic
Nephropathy
Angiectasis
Basophilic Focus

Mild
Chronic, Moderate
Minimal
Marked

Note: ANGIECTASIS TGLs = 3-12
[Angiectasis TGLS = 2-4+11]

Nose

Glands

Dilatation
Inflammation
Cyst

Mild
Suppurative, Minimal

Ovary

Note: CYST TGLs = 1-7

Pituitary Gland

Note: ADENOMA TGLs = 4-8

Pars Distalis

Adenoma

Stomach

Epithelium, Glandular

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8186

TRT#: 6

DOSE: 5.0MG/M3 FEMALE

SEX: Female

DISP: Dead

DAY ON TEST: 727

HISTO: 11088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Colon	Intestine Large - Rectum	Islets, Pancreatic	Larynx
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

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

Adrenal Gland	Cortex	Hemorrhage	Mild
	Medulla	Hyperplasia	Marked
	Cortex	Vacuolization Cytoplasmic	Moderate
Note: HEMORRHAGE	TGLs = 4-5		
Clitoral Gland		Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 6-7		
Heart		Cardiomyopathy	Mild
		Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Necrosis	Marked
	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: VACUOLIZ CYTO	TGLs = 3-4		
Note: NECROSIS	TGLs = 3-4		
Nose	Respirat Epith	Hyperplasia	Mild
Note: CELL HYPERPLASIA.			
Note: THIS IS NOT GOBLET CELL HYPERPLASIA, BUT NASAL EPITHELIAL			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-8		
Stomach	Glandular	Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 7-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8186

TRT#: 6

SEX: Female

DAY ON TEST: 727

DOSE: 5.0MG/M3 FEMALE

DISP: Dead

HISTO: 11088

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8187

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Larynx
Nose
Salivary Glands
Thymus
Uterus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Ovary
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Heart
Kidney
Liver

Lung

Pancreas
Spleen

Alveolus
Artery
Acinus

Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Inflammation
Inflammation
Inflammation
Atrophy
Fibrosis

Mild
Mild
Chronic, Mild
Minimal
Granulomatous, Mild
Suppurative, Moderate
Marked
Mild
Moderate

Note: FIBROSIS TGLs = 1-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8188

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: [BASOPH FOCUS] TGLs = 2-12			
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-11			
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8189

TRT#: 6

SEX: Female

DAY ON TEST: 679

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9714

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	Larynx	Lung	Lymph Node - Mandibular
Ovary	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-12		
Nose	Glands	Dilatation	Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Intermed	Angiectasis	Mild
Note: [ANGIECTASIS]	TGLs = 3-1+8		
Skin		Fibroma	
Note: FIBROMA	TGLs = 2-11		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:46

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8190

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Developmental Malformation	
		Leukemia Mononuclear	
Note: DEVELOP MALFOR	TGLs = 3-11		
Lymph Node	Mandibular	Leukemia Mononuclear	
Nose	Glands	Dilatation	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8191

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thymus
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Larynx
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver
 Note: LEUKEMIA MONUC TGLs = 2-4
Lung
Lymph Node
Nose
Pituitary Gland
 Note: ADENOMA TGLs = 1-8
Spleen

Bronchial
Glands
Pars Distalis

Nephropathy
Leukemia Mononuclear

Leukemia Mononuclear
Leukemia Mononuclear
Dilatation
Adenoma

Leukemia Mononuclear

Chronic, Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8192

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10611

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	Larynx	Lung	Lymph Node - Bronchial
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	Vacuolization Cytoplasmic	Moderate
Brain		Compression	Moderate
Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 1,2-12		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8193

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial	Parathyroid Gland
------------------------	-------------------

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8194

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 5.0MG/M3 FEMALE

DISP: Dead

HISTO: 10181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Lymph Node - Bronchial
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Islets, Pancreatic
Lymph Node - Mandibular
Salivary Glands
Thymus
Uterus

Bone
Larynx
Mammary Gland
Skin
Thyroid Gland

Bone Marrow
Lung
Pancreas
Spleen
Trachea

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum

Intestine Large - Colon
Intestine Small - Jejunum

Intestine Large - Rectum
Nose

Intestine Small - Duodenum
Stomach - Glandular

OBSERVATIONS

Brain
Clitoral Gland
Note: INFLAMMATION TGLs = 3-11
Heart
Kidney
Liver
Ovary
Note: CYST TGLs = 1-12
Pituitary Gland
Note: ADENOMA TGLs = 2-8

Hepatocyte
Pars Distalis

Compression
Inflammation
Cardiomyopathy
Nephropathy
Inflammation
Vacuolization Cytoplasmic
Cyst
Adenoma

Mild
Suppurative, Moderate
Mild
Chronic, Moderate
Granulomatous, Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8195

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10613

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 - Bronchial	Lymph Node - Mandibular	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11		
Mesentery		Necrosis	Marked
Note: NECROSIS	TGLs = 2-12		
Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8196

TRT#: 6

SEX: Female

DAY ON TEST: 679

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9715

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain	Ventricle	Compression	Marked
		Dilatation	Marked
Note: DILATATION TGLs = 3-1			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-5			
Larynx		Inflammation	Suppurative, Moderate
Liver		Angiectasis	Marked
		Inflammation	Granulomatous, Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: ANGIECTASIS TGLs = 1-11 [Inflammation TGLS = 1-11]			
Lymph Node	Mandibular	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 5-7			
Nose	Glands	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-8			
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8197

TRT#: 6

DOSE: 5.0MG/M3 FEMALE

SEX: Female

DISP: Moribund

DAY ON TEST: 720

HISTO: 10175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11+12+13+14		
Nose	Glands	Dilatation	Moderate
	Respirat Epith	Hyperplasia	Mild
Parathyroid Gland		Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-4		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8198

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Clitoral Gland		Inflammation	Suppurative, Marked
		Metaplasia	Squamous, Marked
Note: INFLAMMATION	TGLs = 2-7		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Granulomatous, Moderate
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
Nose	Glands	Dilatation	Mild
Skin		Inflammation	Suppurative, Mild
Note: INFLAMMATION	TGLs = 1-7		
Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8199

TRT#: 6

SEX: Female

DAY ON TEST: 665

DOSE: 5.0MG/M3 FEMALE

DISP: Moribund

HISTO: 9638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lymph Node - Mandibular
Mammary Gland	Ovary	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Mineralization	Marked
Intestine Large	Artery, Cecum	Inflammation	Marked
Intestine Small	Artery, Duodenum	Inflammation	Marked
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 1-5		
Liver	Artery	Mineralization	Marked
Lung		Mineralization	Marked
Note: MINERALIZATION	TGLs = 2-3		
Nose	Glands	Dilatation	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
Pancreas	Artery	Inflammation	Marked
Parathyroid Gland		Hyperplasia	Mild
Stomach	Glandular	Mineralization	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8200

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 5.0MG/M3 FEMALE

DISP: Terminal Sacrifice

HISTO: 10615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Developmental Malformation	
		Inflammation	Granulomatous, Mild

Note: DEVELOP MALFOR TGLs = 1-4

Note: LIVER MASS ON SILDE 4 IS APPARENTLY THE RESULT

Note: OF A DIAPHRAGMATIC HERNIA.

Mammary Gland

Note: [ADENOCARC] TGLs = 3,4-11+12

Adenocarcinoma

Nose Glands

Dilatation Minimal

Pancreas Acinus

Atrophy Mild

Pituitary Gland Pars Distalis

Adenoma

Note: ADENOMA TGLs = 2-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9451

TRT#: 2

DOSE: CONTROL FEMALE

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 10523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Mammary Gland	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Trachea			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 3-14			
Heart		Leukemia Mononuclear	
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 11-11			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-15			
Note: LEUKEMIA MONUC TGLs = 7-2			
Note: LEUKEMIA MONUC TGLs = 8-12			
Nose		Leukemia Mononuclear	
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9451

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10523

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 4-7

Pancreas

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Leukemia Mononuclear

Adenoma

Leukemia Mononuclear

Note: ADENOMA TGLs = 10-8

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-4

Thymus

Leukemia Mononuclear

Thyroid Gland

Leukemia Mononuclear

Urinary Bladder

Leukemia Mononuclear

Uterus

Leukemia Mononuclear

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 5-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9452

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Skin
Thymus

MISSING

Lymph Node - Bronchial

Parathyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Inflammation
Polyp Stromal

Mild
Chronic, Moderate
Mild
Granulomatous, Mild

Uterus

Endometrium

Note: POLYP STROMAL TGLs = 2-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9453

TRT#: 2

SEX: Female

DAY ON TEST: 671

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9651

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	Islets, Pancreatic	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC	TGLs = 3-5		
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver		Leukemia Mononuclear	
		Necrosis	Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-12		
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST	TGLs = 4,5-7		
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-11		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9453

TRT#: 2

SEX: Female

DAY ON TEST: 671

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9651

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9454

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11+12		
Ovary		Cyst	
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9455

TRT#: 2

SEX: Female

DAY ON TEST: 476

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 8403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Large - Cecum	Intestine Small - Ileum
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OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Larynx		Inflammation	Suppurative, Minimal
Liver	Hepatocyte	Cyomegaly	Moderate
	Hepatocyte	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4		Vacuolization Cytoplasmic	Moderate
Lung		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 3-3		Leukemia Mononuclear	
Nose	Respirat Epith	Adenoma	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-4			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9456

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10526

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Moderate
Brain		Compression	
		Congestion	Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 4-5		
Larynx		Inflammation	Suppurative, Mild
Liver		Inflammation	Granulomatous, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-4		
Lung		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11+12		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Dilatation	Mild
Note: DILATATION	TGLs = 5-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9457

TRT#: 2

SEX: Female

DAY ON TEST: 670

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 9645

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9458

TRT#: 2

SEX: Female

DAY ON TEST: 682

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-11			
Kidney		Mineralization	Mild
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: [HYPERPLASIA] TGLs = 4-8			
Salivary Glands	Duct	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
		Karyomegaly	Minimal
Spleen		Hematopoietic Cell Proliferation	Marked
Note: [HEMA CELL PROL] TGLs = 2-4			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9459

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Eye	Lens	Cataract	Mild
Note: CATARACT	TGLs = 1-11		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2,5-12+13+14		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Dilatation	Mild
	Endometrium	Polyp Stromal	
Note: DILATATION	TGLs = 4-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9460

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 11085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9461

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Brain		Compression	Moderate
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 3-12+13		
Ear		Acanthosis	Marked
		Inflammation	Granulomatous, Marked
Note: INFLAMMATION	TGLs = 1-15		
Note: ACANTHOSIS	TGLs = 1-15		
Heart		Cardiomyopathy	Mild
Intestine Small	Ileum	Inflammation	Chronic, Moderate
	Jejunum	Inflammation	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 4-5		
Larynx		Inflammation	Suppurative, Minimal
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Galactocele	
Note: GALACTOCELE	TGLs = 6-11		
Note: ADENOCARC	TGLs = 2-14		
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA]	TGLs = 5-8		
Thymus		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9461

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10528

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9462

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Moderate
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	
		Inflammation	Granulomatous, Mild
Note: [EOSIN FOCUS] TGLs = 2-11			
Lung	Alveolus	Inflammation	Suppurative, Mild
Nose		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9463

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Clitoral Gland		Adenoma	
		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	
		Developmental Malformation	
		Inflammation	Granulomatous, Mild

Note: LOBE IS IN MY OPINION A DIAPHRAGMATIC HERINA.
 Note: IT DOES NOT REPRESENT A TUMOR.
 Note: [CLEAR CL FOCUS] TGLs = 2-11
 Note: LIVER LESION ON SLIDE 12 WHICH CAME FROM THE LAT.
 Note: DEVELOP MALFOR TGLs = 3-12

Pituitary Gland	Pars Intermed	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9464

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10531

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Moderate
Clitoral Gland		Inflammation	Suppurative, Marked
Kidney		Nephropathy	Chronic, Moderate
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Inflammation	Suppurative, Mild
Nose	Glands	Dilatation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9465

TRT#: 2

SEX: Female

DAY ON TEST: 258

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 6278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Large - Cecum	Lymph Node - Bronchial	Parathyroid Gland	
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-5		
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 3-1		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Necrosis	Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-5		
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4		
Thymus		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:47
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 9465

TRT#: 2

SEX: Female

DAY ON TEST: 258

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 6278

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9466

TRT#: 2

SEX: Female

DAY ON TEST: 637

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Brain		Compression	Marked
	Ventricle	Dilatation	Moderate
[Compression TGLS = 5,6-1]			
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Moderate
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 1,2-11+12			
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 4-8			
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9467

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10532

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 - Bronchial	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Marked
Heart		Cardiomyopathy	Mild
	Myocardium	Hemorrhage	Mild
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-11		
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9468

TRT#: 2

SEX: Female

DAY ON TEST: 624

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 9436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Larynx
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Islets, Pancreatic	Pancreas
Pituitary Gland	Stomach - Glandular		

OBSERVATIONS

Clitoral Gland		Adenoma	
		Cyst	
Note: CYST	TGLs = 4-7		
Note: ADENOMA	TGLs = 4-7		
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Uterus	Endometrium	Deciduoma Malignant	
Note: [DECIDUOMA MAL]	TGLs = 1-8		

PRIMARY CAUSE OF DEATH

-

Animal Note: THE TISSUES IN THIS ANIMAL ARE SOME WHAT AUTOLYZED

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9469

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10533

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Larynx		Inflammation	Suppurative, Mild
Liver		Basophilic Focus	Moderate
		Inflammation	Granulomatous, Marked
		Necrosis	Marked
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-11+12		
Ovary		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9470

TRT#: 2

DOSE: CONTROL FEMALE

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 10534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Cyst	
		Nephropathy	Chronic, Moderate
Note: CYST TGLs = 5-5			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Neoplastic Nodule	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: NEOPLASTIC NOD TGLs = 4-13			
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Hemorrhage	Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 7-11			
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-14			
Nose	Glands	Dilatation	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: [ANGIECTASIS] TGLs = 6-8			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9470

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10534

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-12

Stomach	Epithelium, Glandular	Hyperplasia	Mild
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9471

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Brain		Compression	Moderate
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 1-5		
Larynx		Inflammation	Suppurative, Mild
Liver		Angiectasis	Mild
		Basophilic Focus	Mild
		Inflammation	Granulomatous, Mild
Lung	Alveolus	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9472

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Eye Note: CATARACT TGLs = 1-12	Lens	Cataract	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	
		Inflammation	Granulomatous, Mild
Note: [EOSIN FOCUS] TGLs = 4-11			
Pituitary Gland Note: ADENOMA TGLs = 2-8	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Marked
Uterus Note: POLYP STROMAL TGLs = 5-8	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9473

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Granulomatous, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
[Carcinoma TGLS = 2-2]			
Uterus		Dilatation	Moderate
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4-11		
Note: DILATATION	TGLs = 3-11		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9474

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10538

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 - Jejunum
Islets, Pancreatic	Larynx	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Spleen		Leukemia Mononuclear	
Uterus	Endometrium	Polyp Stromal	

Note: POLYP STROMAL TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9475

TRT#: 2

SEX: Female

DAY ON TEST: 476

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 8404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-4		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-3		
Note: LEUKEMIA MONUC	TGLs = 1-7		
Note: LEUKEMIA MONUC	TGLs = 3-11		
Mammary Gland		Fibroadenoma	
Pancreas		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9476

TRT#: 2

SEX: Female

DAY ON TEST: 603

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC	TGLs = 4-5		
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 6-11		
Heart		Leukemia Mononuclear	
Kidney		Infarct	Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: LEUKEMIA MONUC	TGLs = 3-5		
Liver		Leukemia Mononuclear	
		Necrosis	Marked
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC	TGLs = 2-4		
Note: NECROSIS	TGLs = 2-12		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9476

TRT#: 2

SEX: Female

DAY ON TEST: 603

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9388

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-4

Stomach

Forestomach

Leukemia Mononuclear

Glandular

Leukemia Mononuclear

Thymus

Leukemia Mononuclear

Uterus

Inflammation

Suppurative, Marked

Metaplasia

Squamous, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9477

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Larynx
Ovary
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Bronchial

Lymph Node - Mandibular

Parathyroid Gland

Skin

OBSERVATIONS

Adrenal Gland
Kidney
Liver
Urinary Bladder

Cortex

Vacuolization Cytoplasmic
Nephropathy
Basophilic Focus
Papilloma

Minimal
Chronic, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9478

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Inflammation	Suppurative, Marked
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Moderate
		Leukemia Mononuclear	
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9479

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	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	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Moderate
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Larynx	Epithelium	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Inflammation	Granulomatous, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9480

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Bronchial
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Inflammation
Adenoma

Mild
Chronic, Mild
Mild
Granulomatous, Mild

Pituitary Gland

Pars Distalis

Note: ADENOMA TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9481

TRT#: 2

SEX: Female

DAY ON TEST: 714

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 10050

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	Islets, Pancreatic	Larynx	Mammary Gland
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Note: [BASOPH FOCUS] TGLs = 5-11			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Ovary		Granulosa Cell Tumor Malignant	
Note: GRANLSA TM MAL TGLs = 2-14			
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 4-8			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9481

TRT#: 2

SEX: Female

DAY ON TEST: 714

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 10050

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Leukemia Mononuclear

Polyp Stromal

Multiple

Note: POLYP STROMAL TGLs = 1,6-12+13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9482

TRT#: 2

DOSE: CONTROL FEMALE

SEX: Female

DISP: Dead

DAY ON TEST: 644

HISTO: 9484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Larynx
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Lung
Nose
Salivary Glands
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Skin
Thyroid Gland

Bone Marrow
Heart
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Necrosis
Vacuolization Cytoplasmic

Chronic, Moderate
Moderate
Moderate
Moderate

Hepatocyte

Note: NECROSIS TGLs = 1,2-11+12

Mesentery

Note: HEMANGIOMA TGLs = 3-13+14+15

Hemangioma

Pituitary Gland

Pars Distalis

Adenoma

Spleen

Note: [HEMA CELL PROL] TGLs = 4-4

Hematopoietic Cell Proliferation

Marked

Uterus

Endometrium

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9483

TRT#: 2

DOSE: CONTROL FEMALE

SEX: Female

DISP: Moribund

DAY ON TEST: 693

HISTO: 9931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Thrombosis	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4		Vacuolization Cytoplasmic	Mild
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-3]		Leukemia Mononuclear	
Lymph Node	Mandibular	Adenoma	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Note: ADENOMA TGLs = 5-8			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Uterus		Decidual Reaction	
		Hemorrhage	Marked
	Endometrium	Polyp	
Note: ENDOMETRIAL HYPERPLASIA WITH INFARCTION OF			
Note: HYPERPLASTIC ENDOMETRIUM.			
Note: HEMORRHAGE TGLs = 1-11			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9483

TRT#: 2

SEX: Female

DAY ON TEST: 693

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9931

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LESION IS UTERUS IS DIFFICULT TO CLASSIFY.

Note: DIFFERENTIAL DIAGNOSIS ARE DECIDUOMA AND SEVERE

Note: [POLYP] TGLs = 1-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9484

TRT#: 2

DOSE: CONTROL FEMALE

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 10543

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	Larynx	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Intestine Large - Colon

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
		Cardiomyopathy	Mild
Heart		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Kidney		Basophilic Focus	Moderate
		Leukemia Mononuclear	
Liver			
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9484

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10543

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4-8

Spleen

Leukemia Mononuclear

Thymus

Leukemia Mononuclear

Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9485

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Skin

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Eye		Atrophy	Marked
Note: ATROPHY	TGLs = 1-11		
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9486

TRT#: 2

DOSE: CONTROL FEMALE

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 10545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial	Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-13			
Note: ADENOCARC TGLs = 3-12			
Nose		Foreign Body	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-8			
Spleen		Leukemia Mononuclear	
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 1-11			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9487

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Bone
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Small - Duodenum
Larynx
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Esophagus Lymph Node - Bronchial

OBSERVATIONS

Brain		Compression	Mild
Clitoral Gland		Inflammation	Suppurative, Mild
Eye	Lens	Cataract	Mild
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9488

TRT#: 2

SEX: Female

DAY ON TEST: 651

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9529

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	Larynx	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Heart		Leukemia Mononuclear	
Islets, Pancreatic		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Developmental Malformation	
		Leukemia Mononuclear	
		Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: THE LIVER LESION ON SLIDE 12 IS APPARENTLY THE			
Note: DEVELOP MALFOR TGLs = 4-5			
Note: RESULT OF A DIAPHARGMATIC HERNIA.			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3+11			
Lymph Node	Bronchial	Leukemia Mononuclear	
Ovary		Cyst	
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-8			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9488

TRT#: 2

SEX: Female

DAY ON TEST: 651

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9529

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-13

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9489

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Bronchial

Lymph Node - Mandibular

Mammary Gland

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Brain

Hemorrhage

Mild

Clitoral Gland

Adenoma

Inflammation

Suppurative, Marked

Note: [ADENOMA] TGLs = 4-7

Intestine Large

Rectum

Parasite Metazoan

Kidney

Nephropathy

Chronic, Moderate

Note: NEPHROPATHY TGLs = 3-5

Larynx

Epithelium

Hyperplasia

Minimal

Inflammation

Suppurative, Mild

Liver

Clear Cell Focus

Mild

Inflammation

Granulomatous, Mild

Nose

Glands

Dilatation

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 2-1+8

Spleen

Fibrosis

Marked

Note: FIBROSIS TGLs = 1-11

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9490

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Moderate
Lacrimal Gland		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 1-11			
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Moderate
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: [ANGIECTASIS] TGLs = 2-8			
Thymus		Thymoma Benign	
Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9491

TRT#: 2

SEX: Female

DAY ON TEST: 577

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Ovary	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Uterus		

MISSING

Mammary Gland	Parathyroid Gland	Urinary Bladder
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 2-12+13			
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 5-14			
Liver		Inflammation	Granulomatous, Mild
Nose		Parasite Metazoan	Mild
Note: A FLOATER.			
Note: PINWORM XS IN LUMEN OF XS 3 OF NOSE; PROBABLY			
Pancreas	Acinus	Atrophy	Minimal
Skin		Fibroma	
Note: FIBROMA TGLs = 1-11			
Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9492

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Bronchial	Mammary Gland
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Ovary		Cyst	
Note: CYST	TGLs = 2-7		
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9493

TRT#: 2

SEX: Female

DAY ON TEST: 671

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 9652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Bronchial

AUTO PRECLUDES DIAG.

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

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	Moderate
Kidney		Nephropathy	Chronic, Mild
Larynx		Inflammation	Suppurative, Mild
Liver		Inflammation	Granulomatous, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-8			
Stomach	Forestomach	Inflammation	Suppurative, Moderate
	Forestomach	Ulcer	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: THERE IS ALOT OF AUTOLYSIS IN THE TISSUES OF THIS RAT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9494

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10550

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	Larynx	Lymph Node - Bronchial	Lymph Node - Mandibular
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lung		Carcinoma	Metastatic (Thyroid Gland)
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-12+13+14		
Nose	Glands	Dilatation	Minimal
Ovary		Granulosa Cell Tumor Malignant	
Note: [GRANLSA TM MAL]	TGLs = 2-11		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Thyroid Gland	C Cell	Carcinoma	
Note: FOLLICULAR CELL CARCINOMA.			
Note: DIFFERENTIAL DIAGNOSIS ON THYROID TUMOR IS			
Urinary Bladder		Papilloma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9495

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Larynx

Lung

Lymph Node - Bronchial

Lymph Node - Mandibular

Mammary Gland

Nose

Ovary

Pancreas

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Clitoral Gland

Hyperplasia

Moderate

Heart

Cardiomyopathy

Mild

Intestine Large

Colon

Parasite Metazoan

Mild

Kidney

Nephropathy

Chronic, Mild

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-4

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Note: [ANGIECTASIS] TGLs = 2-8

Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9496

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10552

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

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Marked
Bone Marrow		Leukemia Mononuclear	
Clitoral Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-12		
Heart		Thrombosis	
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 4-5		
Larynx		Inflammation	Suppurative, Mild
Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC	TGLs = 2-4		
Note: VACUOLIZ CYTO	TGLs = 2-4		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-8		
Spleen		Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9497

TRT#: 2

SEX: Female

DAY ON TEST: 582

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 9111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Clitoral Gland		Cyst	
Kidney		Nephropathy	Chronic, Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-12+13		
Ovary		Cyst	
Note: CYST	TGLs = 1-7		
Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9498

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 10553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Larynx	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Eosinophilic Focus	Mild
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD TGLs = 2,3-11+12			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 1-8			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9499

TRT#: 2

SEX: Female

DAY ON TEST: 715

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 10057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Compression	Marked
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 1-5			
Lacrimal Gland		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 2-11			
Liver		Angiectasis	Mild
		Basophilic Focus	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1+8			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Epinephrine hydrochloride

CAS Number: 55-31-2

Date Report Requested: 10/23/2014

Time Report Requested: 10:27:47

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9500

TRT#: 2

SEX: Female

DAY ON TEST: 715

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 10058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: LEUKEMIA MONUC TGLs = 2-4			
Note: VACUOLIZ CYTO TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 4-8			
Skin		Acanthosis	Marked
		Inflammation	Chronic, Mild
Note: ACANTHOSIS TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Acanthosis	Marked
	Forestomach	Inflammation	Suppurative, Marked
	Forestomach	Ulcer	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05095-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Epinephrine hydrochloride
CAS Number: 55-31-2

Date Report Requested: 10/23/2014
Time Report Requested: 10:27:47
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 9500

TRT#: 2

SEX: Female

DAY ON TEST: 715

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 10058

ORGAN AND ACCOUNTABLE SITE STATUS

**** END OF REPORT ****