

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:22
First Dose M/F: NA / NA
Lab: BAT

C Number:	C03098C
Lock Date:	05/14/1992
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	12/04/1992

Experiment Number: 05121-05

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Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney	Renal Tubule	Carcinoma	
		Nephropathy	Marked
[Carcinoma TGLS = 2-12]			
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-4]			
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:22

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 649
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|--------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 2-12] | | | |
| * Skin | | Fibroma | |
| [Fibroma TGLS = 3-13] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1-10] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROMA, THORACIC SKIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|--------------|---------------|
| Ear | | Inflammation | Chronic, Mild |
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 4	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 698 HISTO: 9000724
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8,9,10,11-5+14]		
* Epididymis		Mesothelioma Nos	
	[Mesothelioma Nos TGLS = 1,17-11+17]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
		Leukemia Mononuclear	
* Liver			
	[Leukemia Mononuclear TGLS = 3-4]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 14-2+3]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 15-2+3+13]		
* Mammary Gland		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLS = 6-16]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 5-15]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-7]		
Spinal Cord		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 13-20]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 698
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000724

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis Leukemia Mononuclear Mesothelioma Nos	Mild
	[Fibrosis TGLS = 4-12] [Leukemia Mononuclear TGLS = 12-12]		
* Stomach, Forestomach		Ulcer	Mild
	[Ulcer TGLS = 16-6,16-6]		
* Stomach, Glandular		Ulcer	Mild
	[Ulcer TGLS = 16-6,16-6]		
* Testes	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Nos	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: LEUKEMIA, MONONUCLEAR, MULTIPLE ORGANS,

Animal Note: PITUITARY ADENOMA, MESOTHELIOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * 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

- | | | |
|----------|---------------------------|---------|
| * Testes | Bilateral, Interstit Cell | Adenoma |
|----------|---------------------------|---------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 581
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------|----------|
| * Brain | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3,4,5,8-4+14+15+16] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6,7-6+13] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6,7-6+13] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 2-12] | | |
| * Stomach, Glandular | | Ulcer | Moderate |
| | [Ulcer TGLS = 9-17] | | |
| * Testes | Germinal Epith | Atrophy | Marked |
| | [Atrophy TGLS = 1-10] | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 581

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000726

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9000727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------|--------------|
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | | Leukemia Mononuclear | |
| | [Degeneration TGLS = 4-4] | | |
| | [Leukemia Mononuclear TGLS = 2-4] | | |
| * Lung | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLS = 5-13] | | |
| * Pituitary Gland | | Cyst | |
| * Preputial GI | | | |
| | Note: GLAND SEEN AT NECROPSY | | |
| | Note: NO CORRESPONDING LESION FOR ENLARGED PREPUTIAL | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 1-12] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLS = 3-10] | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 656
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
* Lung		Leukemia Mononuclear	
* Skin		Fibroma	
[Fibroma TGLS = 2-13]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 5-12]		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 663
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Ear [Hyperkeratosis TGLS = 4-13]	External Ear	Hyperkeratosis	Mild
Harderian Gland		Adenoma	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Liver [Leukemia Mononuclear TGLS = 2-4]		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	
* Skin [Fibroma TGLS = 3-12]	Pars Distalis	Hyperplasia	Moderate
		Fibroma	
* Spleen		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-10]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: DERMAL FIBROMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 645

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver	Sinusoid	Congestion	Focal, Mild
[Congestion TGLS = 4-4]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]			
* Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-10]			
* Testes	Interstitial Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Ear		Inflammation	Chronic, Mild
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Bone Marrow

* Heart

* Intestine Small, Duodenum

* Liver

* Nose

* Prostate

* Spleen

* Thyroid Gland

* Adrenal Medulla

* Brain

* Intestine Large, Cecum

* Intestine Small, Ileum

* Lung

* Pancreas

* Salivary Glands

* Stomach, Forestomach

* Trachea

* Blood Vessel

* Epididymis

* Intestine Large, Colon

* Intestine Small, Jejunum

* Lymph Node, Mandibular

* Parathyroid Gland

* Seminal Vesicle

* Stomach, Glandular

* Urinary Bladder

* Bone

* Esophagus

* Intestine Large, Rectum

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Preputial Gland

* Skin

* Thymus

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney

Mesentery

* Pituitary Gland

* Testes

[Adenoma TGLS = 1-10]

Artery

Pars Distalis

Bilateral, Interstit Cell

Nephropathy

Thrombosis

Hyperplasia

Adenoma

Moderate

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------|----------|
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-2+3+14] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-15] | | | |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | | Fibroma | |
| [Fibroma TGLS = 4-13] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1,5-1+12] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 2-10] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Eye		Degeneration	Marked
[Degeneration TGLS = 1-17]			
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 9-1]			
* Liver		Degeneration Eosinophilic Focus	Cystic, Minimal
Note: NO CORRESPONDING LESION FOR HEPATIC PALLOR SEEN AT NECROPSY			
Mesentery	Lymphatic	Cyst	
	Fat	Necrosis	Mild
[Cyst TGLS = 7-13]			
[Necrosis TGLS = 6-14]			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Adenoma	
[Adenoma TGLS = 3-15]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-16]			
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Moderate
[Fibrosis TGLS = 5-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000735

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: PREPUTIAL GLAND ADENOMA AND DERMAL

Animal Note: KERATOACANTHOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
	Atrium	Thrombosis	
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 5-1]		
* Liver		Degeneration	Cystic, Mild
	[Leukemia Mononuclear TGLS = 1-4]	Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland	Lymphatic	Ectasia	Marked
	[Ectasia TGLS = 6-7]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 3-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	Peripheral Nerve
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Epididymis			
Note: NO CORRESPONDING LESION FOUND FOR GROSS OBSERVATION OF			
Note: PREPUTIAL GLAND MASS. THE GLANDS MERELY CONTAIN A HIGH			
Note: BUT WITHIN NORMAL LIMITS AMOUNT OF SECRETION			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung		Leukemia Mononuclear	
Note: HEMORRHAGE OF THE LUNG, BUT IT WAS UNDOUBTEDLY AN AGONAL			
Note: CHANGE AND NOT OF ANY TOXICOLOGIC SIGNIFICANCE			
Note: NO CORRESPONDING LESION OF LUNG TO CORRESPOND WITH RED FOCI			
Note: NOTED AT NECROPSY. POSSIBLY THERE WAS SOME CONGESTION OR			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-14]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial GI			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 1	SEX: Male	DAY ON TEST: 600
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000737

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PREPUTIAL GLANDS WERE JUDGED TO BE WITHIN NORMAL LIMITS

Note: HISTOLOGICALLY

* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 8-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 9-10]			
* Urinary Bladder		Ulcer	Moderate
[Ulcer TGLS = 3-15]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 686

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-1]			
* Liver		Degeneration	Cystic, Mild
[Leukemia Mononuclear TGLS = 4-4]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Hyperkeratosis	Marked
[Hyperkeratosis TGLS = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 19	TRT#: 1	SEX: Male	DAY ON TEST: 686
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Cyst	
[Cyst TGLS = 2-13]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 566

DOSE: 0 MG/KG

DISP: Dosing Accident

HISTO: 9000740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Esophagus			
Note: NO CORRESPONDING HISTOPATHOLOGIC LESION FOR ESOPHAGEAL			
Note: LACERATION SEEN AT NECROPSY			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Lung		Foreign Body	Mild
	Pleura	Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: FINDINGS

Animal Note: THE GAVAGE ERROR WAS DIAGNOSED ON THE BASIS OF GROSS

Animal Note: CAUSE OF DEATH: PITUITARY GLAND ADENOMA AND GAVAGE ERROR.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
	Atrium	Thrombosis	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-13]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 2-12]	Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 492

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 2-13]	
		[Leukemia Mononuclear TGLS = 3-4+13]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-14]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-12]	
* Stomach, Glandular		Ulcer	Mild
		[Ulcer TGLS = 5-15]	
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain	Hypothalamus	Hemorrhage	Mild
* Heart	Myocardium	Degeneration	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-4]	
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 4-7]	
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		[Fibrosis TGLS = 2-1]	
		[Leukemia Mononuclear TGLS = 1-12]	
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26	TRT#: 1	SEX: Male	DAY ON TEST: 456
	DOSE: 0 MG/KG	DISP: Scheduled Sacrifice	HISTO: 9000746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Ear		Inflammation	Chronic, Mild
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Nephropathy TGLS = 3-1]		
* Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	Note: OBSERVATION OF RIGHT ANTERIOR LOBE FOCUS		
	Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS		
	[Hepatocellular Adenoma TGLS = 6-13]		
	[Leukemia Mononuclear TGLS = 2-4]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-7]		
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000747

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 523

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Leukemia Mononuclear	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-4]		
* Lung		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Stomach, Glandular		Ulcer	Moderate
	[Ulcer TGLS = 4-6+13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBID CONDITION:MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 660

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-7]			
* Preputial Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-15]			
[Inflammation TGLS = 1-15]			
* Skin		Fibroma	Multiple
[Fibroma TGLS = 2,3-13+14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: DERMAL FIBROMAS, MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31	TRT#: 1	SEX: Male	DAY ON TEST: 471
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-13]		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-12]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ADENOMA OF PREPUTIAL GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	Peripheral Nerve
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 4-1]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-4]		
* Lung		Inflammation	Chronic, Moderate
		Leukemia Mononuclear	
	[Inflammation TGLS = 6-2+3]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-13]		
* Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000752

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CHRONIC INFLAMMATION, LUNG

Animal Note: CAUSE OF MORB: LEUKEMIA, MONONUCLEAR CELL, MULTIPLE

Animal Note: ORGANS, ADENOMA, PARS DISTALIS, PITUITARY GLAND AND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 273

DOSE: 0 MG/KG

DISP: Dosing Accident

HISTO: 9000753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Esophagus	Periesoph Tiss	Inflammation	Chronic, Mild
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Nose		Foreign Body	Moderate
		Inflammation	Suppurative, Mild
* Skin		Inflammation	Acute, Marked
	[Inflammation TGLS = 1-12]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: INFLAMMATION, PROBABLY SECONDARY TO GAVAGE-RELATED

Animal Note: INJURY

Animal Note: CAUSE OF MORIBUND CONDITION: DERMAL AND PERIESOPHAGEAL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Minimal
	Atrium	Thrombosis	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-------------------|----------|
| * Heart | Myocardium | Degeneration | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 1-10] | | | |
| * Thyroid Gland | Follicle | Dilatation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36	TRT#: 1	SEX: Male	DAY ON TEST: 456
	DOSE: 0 MG/KG	DISP: Scheduled Sacrifice	HISTO: 9000756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 37	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9000757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Pituitary Gland	* Thymus
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OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 3-12]		
* Preputial Gland		Adenoma	
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2-10]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 443

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea

OBSERVATIONS

* Brain		Leukemia Mononuclear	
* Heart	Myocardium	Degeneration	Mild
* Int Sm Jejunum			
Note: NO CORRESPONDING LESION FOR RED FLUID OF JEJUNUM			
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2+3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Stomach, Glandular		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Urinary Bladder		Inflammation	Acute, Marked
[Inflammation TGLS = 4-6]			

PRIMARY CAUSE OF DEATH

-

Animal Note: RED FLUID CONTENTS MAY HAVE RESULTED FROM STOMACH ULCER

Animal Note: SEEN AT NECROPSY

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	Peripheral Nerve	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 8-7]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 5-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-2+3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000759

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-12+13]			
* Mammary Gland		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-15]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-7]			
* Heart	Myocardium	Degeneration	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 2-4]			
[Mixed Cell Focus TGLS = 3-13]			
* Lung		Inflammation	Granulomatous, Minimal
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-12]			
[Leukemia Mononuclear TGLS = 6-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 655

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------------------|-------------------------------------|----------|
| * Kidney | | Leukemia Mononuclear
Nephropathy | Mild |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-4] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-2] | | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-12] | | | |
| * Stomach, Forestomach | | Ulcer | Moderate |
| [Ulcer TGLS = 6-6+13] | | | |
| * Stomach, Glandular | | Ulcer | Moderate |
| [Ulcer TGLS = 6-6+13] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1,2-10] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 43	TRT#: 1	SEX: Male	DAY ON TEST: 656
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
	Valve	Inflammation	Chronic, Mild
* Kidney		Nephropathy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skeletal Muscle		Sarcoma	
[Sarcoma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: SARCOMA, SKELETAL MUSCLE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9000764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-7]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-1]		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-10]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 642

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone		Osteosarcoma	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
* Lung		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 4,5-2+3]			
* Pancreas	Acinus	Atrophy	Minimal
* Skin		Sarcoma	
[Sarcoma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

* Urin Bladder
 Note: SEEN AT NECROPSY
 Note: NO CORRESPONDING LESION FOR URINARY BLADDER DILATATION

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 1-14]		
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 430

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart	Myocardium	Degeneration	Moderate
* Liver		Necrosis	Moderate
	[Necrosis TGLS = 2-4]		
* Lung		Inflammation	Subacute, Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 1-12]		
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: SUBACUTE PNEUMONIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 6-1]		
* Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-2]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 4-15]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 2-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Stomach, Glandular		Ulcer	Minimal
	[Ulcer TGLS = 8-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000770

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE

Animal Note: ORGANS, AND FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Preputial Gland		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Nephropathy TGLS = 5-1]		
* Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 3-13]		
	[Leukemia Mononuclear TGLS = 4-4]		
* Lung		Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-7]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 671

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex [Adenoma TGLS = 9-7]		Adenoma	
* Kidney		Leukemia Mononuclear Nephropathy	Moderate
* Liver Note: NO CORRESPONDING MICROSCOPIC LESION FOR MEDIAN LOBE Note: LIVER NODULE SEEN AT NECROPSY [Leukemia Mononuclear TGLS = 2-4]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,6,7,10,11,12-2+13+14+15+16+17]			
[Leukemia Mononuclear TGLS = 1,6,7,10,11,12-2+13+14+15+16+17]			
[Leukemia Mononuclear TGLS = 1,6,7,10,11,12-2+13+14+15+16+17]			
[Leukemia Mononuclear TGLS = 1,6,7,10,11,12-2+13+14+15+16+17]			
* Lymph Node, Mandibular [Leukemia Mononuclear TGLS = 1,6,7,10,11,12-2+13+14+15+16+17]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 1,6,7,10,11,12-2+13+14+15+16+17]		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 54	TRT#: 1	SEX: Male	DAY ON TEST: 671
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000774

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Hyperplasia TGLS = 13-7]	Pars Distalis	Leukemia Mononuclear Hyperplasia	Moderate
* Spleen [Fibrosis TGLS = 4-12] [Leukemia Mononuclear TGLS = 3-12]		Fibrosis Leukemia Mononuclear	Minimal
* Stomach, Glandular [Ulcer TGLS = 14-6]		Ulcer	Mild
* Testes [Adenoma TGLS = 5-10]	Bilateral, Interstit Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 7-14]			
* Heart	Valve	Thrombosis	
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
* Lung		Inflammation	Granulomatous, Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Keratoacanthoma	Multiple
		Squamous Cell Carcinoma	
[Keratoacanthoma TGLS = 1,2-16+17]			
[Squamous Cell Carcinoma TGLS = 1-16]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 4,6-13+15]			
[Leukemia Mononuclear TGLS = 3-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000775

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------|---------------------------|--------------|----------|
| * Heart | Myocardium | Degeneration | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 673

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-1]			
* Liver		Degeneration	Cystic, Minimal
Eosinophilic Focus			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR BROWN			
Note: APEARANCE OF LIVER SEEN AT NECROPSY			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-13]			
* Pancreas	Artery	Inflammation	Chronic, Moderate
* Salivary Glands		Schwannoma Malignant	
[Schwannoma Malignant TGLS = 4-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: SCHWANNOMA, MAL, SALIVARY GLAND,
 Animal Note: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 508

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|---------------|------------------|---------|
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 59	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9000779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 4-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 6-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1-10]			
[Atrophy TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 706

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
Ear	External Ear	Hyperkeratosis	Minimal
[Hyperkeratosis TGLS = 1-12]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-1]			
* Lung		Inflammation	Granulomatous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 4-6]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

Animal Note: AND NEPHROPATHY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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 Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 7-1]			
* Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	
Note: NO CORRESPONDING MICROSCOPIC LESION FOR HEPATIC			
Note: ENLARGEMENT SEEN AT NECROPSY			
[Hepatocellular Carcinoma TGLS = 5-14]			
[Mixed Cell Focus TGLS = 6-4]			
* Mammary Gland		Fibroadenoma	
Note: PREPARED IN AN ATTEMPT TO OBTAIN A CONTROL (WITHIN			
Note: NORMAL LIMITS) MAMMARY GLAND SECTION. SEE SLIDE #13.			
Note: CONTAIN A HYPERPLASTIC MAMMARY GLAND, THOUGH IT WAS			
Note: THE SLIDE PREPARED FOR THE ONCOGENE STUDY APPEARED TO			
[Fibroadenoma TGLS = 2-12]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 6-1]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			
* Preputial Gland		Hyperplasia	Mild
* Skin	Hair Follicle	Atrophy	Focal, Moderate
	Dermis	Fibrosis	Focal, Mild
[Atrophy TGLS = 1-14]			
[Fibrosis TGLS = 1-14,1-14]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 5-12]			
* Stomach, Forestomach		Ulcer	Marked
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: AND NEPHROPATHY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001082

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 281

DOSE: 1 MG/KG

DISP: Dosing Accident

HISTO: 9001083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Esophagus [Ulcer TGLS = 1-2+12]		Ulcer	Marked
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Nose		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: PROBABLY SECONDARY TO DOSING ACCIDENT

Animal Note: CAUSE OF MORIBUND CONDITION: ESOPHAGEAL ULCER,

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 504

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------------|---------------------------|------------------|---------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-12+13] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 2-10] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MAMMARY GLAND FIBROADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66	TRT#: 3	SEX: Male	DAY ON TEST: 540
	DOSE: 1 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
* Pituitary Gland		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-10]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: FIBROADENOMA OF MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 492

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|--------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Pancreas | Acinus | Atrophy | Mild |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-12] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 2-10] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: PREPUTIAL GLAND ADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Pituitary Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Marked

[Necrosis TGLS = 1-12]

* Pituitary Gl

Note: NO CORRESPONDING LESION FOR PUNCTATE FOCUS OF PITUITARY

Note: SEEN AT NECROPSY, BECAUSE NO PITUITARY TISSUE ON WHICH

Note: TO MAKE A DIAGNOSIS WAS PRESENT ON THE SLIDES.

Note: TISSUE MAY HAVE BEEN LOST DURING PROCESSING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-7]			
* Heart	Myocardium	Degeneration	Mild
* Liver		Eosinophilic Focus	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-7]			
* Preputial Gland		Ectasia	Mild
Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS OBSERVATION			
Note: OF ENLARGED PREPUTIAL GLAND			
[Ectasia TGLS = 1-10]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 715

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Moderate
	Atrium	Thrombosis	
	[Thrombosis TGLS = 6-4]		
* Kidney		Fibroma	
		Nephropathy	Marked
	[Fibroma TGLS = 5-1]		
	[Nephropathy TGLS = 4-1]		
* Liver	Centrilobular	Degeneration	Mild
	[Degeneration TGLS = 3-4]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: LEFT ATRIAL THROMBUS AND NEPHROPATHY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-12]			
* Pituitary Gland		Cyst	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Mammary Gland |
| * Nose | Peripheral Nerve | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | Spinal Cord |
| * Stomach, Forestomach | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------|---------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | Myocardium | Degeneration | Mild |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 4-4] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Axillary | Leukemia Mononuclear | |
| | Deep Cervical | Leukemia Mononuclear | |
| | Lumbar | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5,6,7,8,9,10,11-5+7+13] | | |
| | [Leukemia Mononuclear TGLS = 5,6,7,8,9,10,11-5+7+13] | | |
| | [Leukemia Mononuclear TGLS = 5,6,7,8,9,10,11-5+7+13] | | |
| | [Leukemia Mononuclear TGLS = 5,6,7,8,9,10,11-5+7+13] | | |
| | [Leukemia Mononuclear TGLS = 5,6,7,8,9,10,11-5+7+13] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5,6,7,8,9,10,11-5+7+13] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5,6,7,8,9,10,11-5+7+13] | | |
| * Pancreas | Arteriole | Inflammation | Chronic, Mild |
| * Parathyroid Gland | | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72	TRT#: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 1 MG/KG	DISP: Terminal Sacrifice	HISTO: 9001092

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Cyst	
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[Fibrosis TGLS = 3-1]		
	[Leukemia Mononuclear TGLS = 2-1+12]		
* Stomach, Glandular		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		

PRIMARY CAUSE OF DEATH -

Animal Note: TGL NOTE, CONTINUED: 14+15+16+20+21

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73	TRT#: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 1 MG/KG	DISP: Terminal Sacrifice	HISTO: 9001093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 9-1]		
* Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
	[Degeneration TGLS = 10-14]		
	[Leukemia Mononuclear TGLS = 8-4]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-16]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 7-15]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 2-12]		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[Fibrosis TGLS = 6-1]		
	[Leukemia Mononuclear TGLS = 5-13]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001093

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-10]

[Atrophy TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 585

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------------------|-------------------------|------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone | | Fibrous Osteodystrophy | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-4] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-12] | | | |
| * Stomach, Glandular | | Ulcer | Mild |
| [Ulcer TGLS = 5-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1,2-10] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Hepatodiaphragmatic Nodule	
Note: NO CORRESPONDING LESION FOR HEPATIC FOCUS			
Note: SEEN AT NECROPSY			
[Hepatodiaphragmatic Nodule TGLS = 3-4]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-13]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLS = 5-7]			
* Spleen		Fibrosis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 592

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Moderate
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 2-12]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ZYMBAL'S GLAND CARCINOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 561

DOSE: 1 MG/KG

DISP: Dosing Accident

HISTO: 9001098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 1,3-12+13]			
* Urinary Bladder		Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: SECONDARY TO GAVAGE ERROR

Animal Note: CAUSE OF DEATH: STOMACH ULCERATION, BELIEVED TO BE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 3	SEX: Male	DAY ON TEST: 632
	DOSE: 1 MG/KG	DISP: Natural Death	HISTO: 9001099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-4]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-2+3]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-7]		
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 589

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 8-1]		
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLS = 9-17]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3,9-4+17]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5,7,10-5+14+2+15+16+18]		
	[Leukemia Mononuclear TGLS = 4,5,7,10-5+14+2+15+16+18]		
	[Leukemia Mononuclear TGLS = 4,5,7,10-5+14+2+15+16+18]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5,7,10-5+14+2+15+16+18]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 1-12]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80	TRT#: 3	SEX: Male	DAY ON TEST: 589
	DOSE: 1 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001100

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-13]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 11-19]			
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81	TRT#: 3	SEX: Male	DAY ON TEST: 456
	DOSE: 1 MG/KG	DISP: Scheduled Sacrifice	HISTO: 9001101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Testes	Interstit Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
	Atrium	Thrombosis	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Nephropathy TGLS = 10-1]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-4]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-3]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1,2-2+7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1,2-2+7]		
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 6,7-12+13]		
* Preputial GI			
	Note: NO CORRESPONDING LESION FOR ENLARGED PREPUTIAL		
	Note: GLAND SEEN AT NECROPSY		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001102

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-1]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4,5-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 4-1]		
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 5-13]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 6-2]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 1-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		
* Thyroid Gland	C Cell	Infiltration Cellular	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 84	TRT#: 3	SEX: Male	DAY ON TEST: 456
	DOSE: 1 MG/KG	DISP: Scheduled Sacrifice	HISTO: 9001104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 666

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Mesothelioma Nos	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
Mesentery	Fat	Mesothelioma Nos	
		Necrosis	Moderate
	[Mesothelioma Nos TGLS = 4,5,6,7-7+12+13+14]		
	[Necrosis TGLS = 6-14]		
* Pancreas		Mesothelioma Nos	
	[Mesothelioma Nos TGLS = 8-6]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Nos	
	[Adenoma TGLS = 2,3-10]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MESOTHELIOMA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86	TRT#: 3	SEX: Male	DAY ON TEST: 504
	DOSE: 1 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: FIBROADENOMA OF MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 4-1]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-4]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	Note: NO CORRESPONDING MICROSCOPIC LESION FOR PITUITARY		
	Note: GLAND NODULE SEEN AT NECROPSY		
* Skin		Fibroma	
	[Fibroma TGLS = 1-12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-1]		
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 671

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Leukemia Mononuclear TGLS = 10-1]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-4]		
* Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		
	[Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		
	[Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		
	[Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		
	[Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		
	[Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88	TRT#: 3 DOSE: 1 MG/KG	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 671 HISTO: 9001108
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 4,5,7,8,9,11,12,13-2+7+13+14]		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 1-1]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-10] [Atrophy TGLS = 3-10]	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB; MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

Animal Note: TGL NOTE, CONTINUED: 12+15+16+17

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|-------------------|--------------|---------|
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | | |
| Note: NO CORRESPONDING LESION FOR SPLENIC DEFORMITY SEEN | | | |
| Note: AT NECROPSY | | | |
| * Testes | Interstitial Cell | Adenoma | |

[Adenoma TGLS = 2-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Esophagus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-13]			
Eye		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-16]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
[Nephropathy TGLS = 7-1]		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5,8-17+18]			
[Leukemia Mononuclear TGLS = 5,8-17+18]			
Spinal Cord		Leukemia Mononuclear	
* Spleen		Fibroma	
		Leukemia Mononuclear	
[Fibroma TGLS = 12-12]			
[Leukemia Mononuclear TGLS = 4,13-1+12]			
* Stomach, Glandular		Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90	TRT#: 3	SEX: Male	DAY ON TEST: 678
	DOSE: 1 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001110

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 14-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 9-7]			
Tongue		Foreign Body	Mild
		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 10-13]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91	TRT#: 3	SEX: Male	DAY ON TEST: 404
	DOSE: 1 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORIBUND CONDITION: MAMMARY GLAND FIBROADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 5-1]		
* Liver		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-7]		
* Prostate		Inflammation	Chronic, Moderate
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2,7-1+12]		
* Stomach, Forestomach		Ulcer	Moderate
	[Ulcer TGLS = 8-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3,4-10]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Liver		Degeneration	Cystic, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12+13]			
* Preputial Gland		Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
[Hyperplasia TGLS = 2-10]			
[Inflammation TGLS = 2-10]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROADENOMA OF MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 612

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 560

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
[Leukemia Mononuclear TGLS = 4-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Stomach, Glandular		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 583

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Interstit Cell	Adenoma	
Zymbal's Gland		Carcinoma	

[Carcinoma TGLS = 1-12]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ZYMBAL'S GLAND CARCINOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* 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 Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
* Mammary Gland		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-12]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-12]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 533

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------|--------------|---------|
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* 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 Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-12]			
* Pituitary Gland		Cyst	
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 6-13]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Keratoacanthoma	
		Squamous Cell Papilloma	
		Ulcer	Mild
		[Keratoacanthoma TGLS = 2-15]	
		[Squamous Cell Papilloma TGLS = 1-16]	
		[Ulcer TGLS = 3-14]	
* Spleen		Fibrosis	Moderate
		[Fibrosis TGLS = 4-12]	
* Testes	Interstit Cell	Adenoma	
		[Adenoma TGLS = 5-10]	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Nephropathy TGLS = 4-1]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3,6-4]		
* Lung		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 688

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 5-1]			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-4]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-12]			
* Stomach, Forestomach		Inflammation	Chronic, Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: NEPHROPATHY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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

* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 6-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Moderate
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 2-1+13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Pituitary Gland

OBSERVATIONS

* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 4,5-14+15+16]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 7-4]			
* Lung		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 6-2+3]			
* Pancreas	Acinus	Atrophy	Minimal
* Skin		Fibroma	
[Fibroma TGLS = 2-13]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-12]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: OSTEOSARCOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Cecum		Ulcer	Marked
[Ulcer TGLS = 10-15]			
* Intestine Small, Jejunum		Ulcer	Marked
[Ulcer TGLS = 11-14]			
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 8-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-4]			
* Lung		Ectopic Tissue	
		Leukemia Mononuclear	
Note: ECTOPIC BONE PRESENT			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-2]			
Mesentery		Inflammation	Suppurative, Marked
	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-13]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106	TRT#: 3	SEX: Male	DAY ON TEST: 678
	DOSE: 1 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001126

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]			
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		Necrosis	Mild
[Leukemia Mononuclear TGLS = 6-1]			
[Necrosis TGLS = 12-12]			
* Stomach, Forestomach		Ulcer	Moderate
[Ulcer TGLS = 13-6+16]			
* Stomach, Glandular		Ulcer	Moderate
[Ulcer TGLS = 13-6+16]			
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-------------------------------------|----------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 2-4] | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 5-2] | |
| Mesentery | Fat | Necrosis | Moderate |
| | | [Necrosis TGLS = 6-12] | |
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | | Cyst | |
| | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 1-1] | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | [Adenoma TGLS = 3-10] | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 658

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------------|---------------|-------------------------|------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mineralization | Minimal |
| [Fatty Change TGLS = 1-12] | | | |
| [Inflammation TGLS = 1-12] | | | |
| [Mineralization TGLS = 1-12] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla [Necrosis TGLS = 5-13]		Necrosis	Marked
* Brain Note: NO CORRESPONDING LESION FOR CEREBELLAR FOCI SEEN Note: AT NECROPSY			
* Heart	Myocardium	Degeneration	Minimal
* Kidney [Nephropathy TGLS = 4-1]		Leukemia Mononuclear Nephropathy	Mild
* Liver [Leukemia Mononuclear TGLS = 3-4]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland [Adenoma TGLS = 7-7]	Pars Distalis	Adenoma	
* Skin [Squamous Cell Papilloma TGLS = 1-14]		Squamous Cell Papilloma	
* Spleen [Leukemia Mononuclear TGLS = 2-12]		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 111

TRT#: 3

SEX: Male

DAY ON TEST: 688

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 5-13]		
* Lung		Inflammation	Chronic, Moderate
Lymph Node	Mediastinal	Angiectasis	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-7]		
* Spleen		Fibrosis	Moderate
	[Fibrosis TGLS = 3,4-1+12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: CHRONIC PNEUMONIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 112

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* 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

* Heart	Myocardium	Degeneration	Minimal
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 6-6+12]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lymph Node, Mandibular		Hemorrhage	Moderate
[Hemorrhage TGLS = 1-7]			
Mesentery		Carcinoma	Metastatic (Islets, Pancreatic)
[Carcinoma TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-7]			
Skeletal Muscle		Carcinoma	Metastatic (Islets, Pancreatic)
[Carcinoma TGLS = 3-14]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 113

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-7]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 5-1]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			
* Skin		Fibroma	
[Fibroma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: FIBROMA, SKIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 669

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 1 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Pituitary Gland		Cyst	
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 533

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Leukemia Mononuclear	
Note: AT NECROPSY			
Note: NO CORRESPONDING LESION FOR FOCUS OF LEFT CEREBRUM SEEN			
[Leukemia Mononuclear TGLS = 3-5]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-1]			
* Liver		Mixed Cell Focus	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 446

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---------------------------|---------------|-------------------|------|
| * Heart | Myocardium | Degeneration | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 1-12] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORIBUND CONDITION: PITUITARY GLAND ADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 706

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Seminal Vesicle	* Skin	Spinal Cord
* Spleen	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Salivary Glands	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Mild
* Kidney		Cyst	
		Nephropathy	Marked
[Cyst TGLS = 4-1]			
[Nephropathy TGLS = 3-1]			
* Liver		Fatty Change	Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-7]			
* Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 2-10]			
* Prostate		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-14]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 8-12,6-6]			
* Stomach, Glandular		Ulcer	Mild
[Ulcer TGLS = 8-12,6-6]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 120	TRT#: 3	SEX: Male	DAY ON TEST: 706
	DOSE: 1 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001140

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: NEPHROPATHY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-7]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 2-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 6-1]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,8-4+16]		
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7,9,10,12,13-2+6+7+15+17]		
	[Leukemia Mononuclear TGLS = 7,9,10,12,13-2+6+7+15+17]		
	[Leukemia Mononuclear TGLS = 7,9,10,12,13-2+6+7+15+17]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7,9,10,12,13-2+6+7+15+17]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7,9,10,12,13-2+6+7+15+17]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000963

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gl		
Note: FOCUS SEEN AT NECROPSY		
Note: NO CORRESPONDING MICROSCOPIC LESION FOR PITUITARY		
* Prostate	Inflammation	Minimal, Moderate
* Skin		
Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR		
Note: 2X2X1 MM REDDENED AREA OF NOSE SEEN AT NECROPSY		
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 5-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9000964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-7]			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 660

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-14]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thymus		Leukemia Mononuclear	
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 3-13]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ZYMBAL'S GLAND CARCINOMA, MONONUCLEAR CELL

Animal Note: LEUKEMIA, MULTIPLE ORGANS, AND PITUITARY GLAND ADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 463

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-4]		
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	

MISSING

* Trachea

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 5-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-2]			
* Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 6-13]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,8-10]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000968

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9000969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Jejunum

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Minimal
[Nephropathy TGLS = 2-1]			
* Liver			
Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR			
Note: HEPATIC PALLOR AND GRANULAR APPEARANCE NOTED AT NECROPSY			
* Skin		Fibroma	
[Fibroma TGLS = 4-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: FIBROMA, SKIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 3-1]		
* Liver		Degeneration	Cystic, Mild
	[Leukemia Mononuclear TGLS = 4-4]	Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-7]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-12]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|-------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | Myocardium | Degeneration | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1-10] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 609

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9000973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Mesothelioma Nos	
[Mesothelioma Nos TGLS = 3,5-11+12]			
* Heart	Myocardium	Degeneration	Minimal
	Atrium	Thrombosis	
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
[Fatty Change TGLS = 7-4]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery		Mesothelioma Nos	
[Mesothelioma Nos TGLS = 2,6,8-6+13+14+15]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Nos	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: AND EPIDIDYMIDES

Animal Note: CAUSE OF DEATH: MESOTHELIOMA, PERITONEAL CAVITY (MESENTERY)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 649

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Thymsus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 6-1]			
* Liver		Fatty Change	Mild
[Fatty Change TGLS = 5-4]		Necrosis	Mild
[Necrosis TGLS = 5-4]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-7]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-10]			
* Skin		Hyperplasia	Basal Cell, Mild
[Hyperplasia TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Ulcer	Mild
[Ulcer TGLS = 8-6+14]			
* Stomach, Glandular		Ulcer	Moderate
[Ulcer TGLS = 8-6+14]			
* Testes	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 649

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000974

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: NEPHROPATHY

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND AND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 631

DOSE: 5 MG/KG

DISP: Dosing Accident

HISTO: 9000975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Esophagus		Inflammation	Chronic, Marked
[Inflammation TGLS = 3-12]			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-13]			
* Lung		Inflammation	Subacute, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-14]			
* Preputial Gland		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: PERIESOPHAGEAL INFLAMMATION, PROBABLY

Animal Note: THE DELAYED RESULT OF A DOSING ACCIDENT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 5-7]			
* Preputial GI			
Note: ENLARGEMENT SEEN AT NECROPSY			
Note: NO CORRESPONDING LESION FOR RIGHT PREPUTIAL GLAND			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 589

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,5-4+15]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
Penis			
Note: NO CORRESPONDING MICROSCOPIC LESION COULD BE FOUND TO			
Note: MATCH WITH THE GROSS OBSERVATION OF PENILE PROLAPSE			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Stom Gland			
Note: THE GLANDULAR STOMACH			
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: NO CORRESPONDING HISTOPATHOLOGIC LESION WAS FOUND

Animal Note: TO CORRELATE WITH THE GROSS FINDING OF BROWN FOCI OF

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 706

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9000978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Cecum

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-1]			
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 3-12]			
[Leukemia Mononuclear TGLS = 4-4]			
[Leukemia Mononuclear TGLS = 4-4]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 5-12]		
* Skin		Fibrous Histiocytoma	
	[Fibrous Histiocytoma TGLS = 1,2,5-12+13+14]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 3-10]		
	[Atrophy TGLS = 4-10]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MALIGNANT FIBROUS HISTIOCYTOMA OF SKIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 3-1]		
* Liver		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: LIVER SEEN AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR ENLARGED			
	[Hepatodiaphragmatic Nodule TGLS = 5-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-7]		
* Skin		Fibroma	
	[Fibroma TGLS = 2-12]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 6-1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 625

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Mesothelioma Nos	
* Heart	Myocardium	Degeneration	Mild
	Atrium	Thrombosis	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Hemosiderin, Moderate
* Liver	Serosa	Mesothelioma Nos	
	[Mesothelioma Nos TGLS = 6,7-4+12]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Moderate
	[Pigmentation TGLS = 2-2]		
Mesentery		Mesothelioma Nos	
	[Mesothelioma Nos TGLS = 3-13]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 4-1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Nos	
	[Adenoma TGLS = 5-10]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MESOTHELIOMA, MULTIPLE TISSUES

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Minimal
	Atrium	Thrombosis	
	[Thrombosis TGLS = 6-4]		
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 4-1]		
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 5-12]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 2-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-7]		
* Skin			
	Note: NO CORRESPONDING LESION FOR NODULE SEEN AT NECROPSY		
* Stomach, Forestomach		Ulcer	Mild
	[Ulcer TGLS = 8-15]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-13]		
* Spleen		Fibrosis Leukemia Mononuclear	Moderate
	[Fibrosis TGLS = 3-12]		
	[Leukemia Mononuclear TGLS = 2-12]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]		Cyst	
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 2-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-12]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 627

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

Harderian Gland		Inflammation	Suppurative, Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-16]			
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 178

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9000989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	Peripheral Nerve	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
Note: NO CORRESPONDING MICROSCOPIC LESION FOR CARDIAC			
Note: ATRIAL DISCOLORATION SEEN AT NECROPSY			
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 2-1]			
* Liver		Degeneration	Cystic, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-7+17]			
* Preputial GI			
Note: OBSERVATION OF DISCOLORED PREPUTIAL GLANDS			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Osteosarcoma	Metastatic (Uncertain Primary Site)
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
		Osteosarcoma	Metastatic (Uncertain Primary Site)
			[Nephropathy TGLS = 8-1]
* Liver		Osteosarcoma	Metastatic (Uncertain Primary Site)
			[Osteosarcoma TGLS = 6-4]
Lymph Node	Mediastinal	Osteosarcoma	Metastatic (Uncertain Primary Site)
Mesentery		Osteosarcoma	Metastatic (Uncertain Primary Site)
			[Osteosarcoma TGLS = 1-12]
* Pancreas		Osteosarcoma	Metastatic (Uncertain Primary Site)
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
			[Hyperplasia TGLS = 9-7]
Skeletal Muscle		Osteosarcoma	Metastatic (Uncertain Primary Site)
			[Osteosarcoma TGLS = 4-15]
* Skin		Fibroma	
			[Fibroma TGLS = 2-13]
* Spleen		Osteosarcoma	Metastatic (Uncertain Primary Site)
			[Osteosarcoma TGLS = 7-14]
* Testes	Bilateral, Interstit Cell	Adenoma	
		Osteosarcoma	Metastatic (Uncertain Primary Site)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000991

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-10]

[Osteosarcoma TGLS = 5-16]

* Thymus

Osteosarcoma

Metastatic (Uncertain Primary Site)

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 713

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
Peripheral Nerve	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 6-1]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 1-1]		
	[Leukemia Mononuclear TGLS = 2-1+12]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 3-10]		
	[Atrophy TGLS = 4-10]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 153

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 576

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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

* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
-----------------	---------------------

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-7]			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Pancreas	Acinus	Atrophy	Mild
	Artery	Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 576

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney	Renal Tubule	Carcinoma	
		Nephropathy	Minimal
[Carcinoma TGLS = 3-13]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: RENAL TUBULAR CARCINOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:23
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 713

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Moderate
	Atrium	Thrombosis	
	[Thrombosis TGLS = 6-4]		
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 5-1]		
* Liver		Basophilic Focus	
	[Fatty Change TGLS = 4-4]	Degeneration	Cystic, Minimal
		Fatty Change	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Skin	Subcut Tiss	Edema	Moderate
	[Edema TGLS = 7-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: LEFT ATRIAL THROMBUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
Eye	Lens	Cataract	Moderate
[Cataract TGLS = 1-13]			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 7-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-14]			
* Pituitary Gland		Cyst	
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-1]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-------------------------|----------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Spleen | | Fibrosis | Minimal |
| [Fibrosis TGLS = 1-12] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 2-10] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Preputial Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 4-1]		
* Liver		Cyst	
		Leukemia Mononuclear	
	[Cyst TGLS = 6-4]		
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-7]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Prostate
- * Spleen
- * Thyroid Gland

- * Adrenal Medulla
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Trachea

- * Blood Vessel
- * Epididymis
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Urinary Bladder

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

MISSING

- * Preputial Gland

OBSERVATIONS

- | | | | |
|-------------------------|---------------------------|------------------|------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1-10] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * 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 Cortex | | Hyperplasia | Minimal |
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Lung | Interstitialium | Inflammation | Minimal |
| * Pituitary Gland | | Cyst | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-7]			
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 8-12]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 6-1]			
* Liver		Hepatodiaphragmatic Nodule	
Note: NO CORRESPONDING MICROSCOPIC LESION FOR BROWN			
Note: DISCOLORATION OF LIVER SEEN AT NECROPSY			
[Hepatodiaphragmatic Nodule TGLS = 4-13]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-7]			
* Spleen		Leukemia Mononuclear	
Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR			
Note: GROSS OBSERVATION OF SPLENIC DEFORMITY SEEN AT NECROPSY			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001005

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: OSTEOSARCOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-1+13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-10]			
[Atrophy TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 167

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5-4+13]		
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 2-14]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* 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 Medulla [Pheochromocytoma Benign TGLS = 7-7]		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Nos	
* Intestine Small, Ileum [Inflammation TGLS = 4-13,5-6]		Inflammation	Chronic, Moderate
* Intestine Small, Jejunum [Inflammation TGLS = 4-13,5-6]		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung [Inflammation TGLS = 8-3]		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric [Inflammation TGLS = 3-14]		Inflammation	Suppurative, Marked
Mesentery		Mesothelioma Nos	
* Pituitary Gland [Adenoma TGLS = 6-7]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 1-12]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-10]	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Nos	
* Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001008

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2+3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 565

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Mesothelioma Nos	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Liver	Serosa	Mesothelioma Nos	
Note: APPEARANCE OF LIVER SEEN AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR PALE			
Mesentery		Mesothelioma Nos	
[Mesothelioma Nos TGLS = 1-12]			
* Spleen		Mesothelioma Nos	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Nos	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MESOTHELIOMA OF MESENTERY AND VAGINAL TUNIC

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 171

TRT#: 5

SEX: Male

DAY ON TEST: 631

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-4]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6,7-2+7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6,7-2+7]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 5-13]		
* Nose		Inflammation	Suppurative, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-12]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 2-10]		
	[Atrophy TGLS = 1-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 171	TRT#: 5	SEX: Male	DAY ON TEST: 631
	DOSE: 5 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001011

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Moderate
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PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 172

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Astrocytoma Nos	
	Ventricle	Hydrocephalus	Marked
* Heart	Myocardium	Degeneration	Minimal
		Schwannoma Nos	
* Kidney		Nephropathy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 173

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
[Degeneration TGLS = 6-13]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-12]			
* Skin		Keratoacanthoma	
Note: A NODULE WAS NOTED ON THE TAIL OF THE ANIMAL, BUT			
Note: NODULE INTO THE BUCKET OF FIXATIVE			
Note: APPARENTLY THE NECROPSY PROSECTOR FORGOT TO PUT THE			
[Keratoacanthoma TGLS = 2-12]			
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 173	TRT#: 5	SEX: Male	DAY ON TEST: 666
	DOSE: 5 MG/KG	DISP: Moribund Sacrifice	HISTO: 9001013

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
* Urin Bladder			
Note: SEEN AT NECROPSY			
Note: NO CORRESPONDING LESION FOR URINARY BLADDER DILATATION			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 174

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|----------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 4-12] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 5-13] | | | |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLS = 1-14] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 3,6-1] | | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLS = 3,6-1] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 2-10] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 175

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
	Atrium	Thrombosis	
* Kidney		Nephropathy	Moderate
[Nephropathy TGSL = 3-1]			
* Liver		Basophilic Focus	
* Preputial Gland		Inflammation	Suppurative, Minimal
[Inflammation TGSL = 1-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGSL = 2-10]			
Tooth	Gingiva	Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGSL = 4-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
Note: NO CORRESPONDING LESION FOR HEPATIC FOCUS SEEN AT NECROPSY			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 631

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-7]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Marked
[Fatty Change TGLS = 4-4]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Preputial Gland		Inflammation	Suppurative, Mild
* Seminal Vesicle		Fibrosis	Marked
* Stomach, Forestomach		Ulcer	Moderate
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND,

Animal Note: NEPHROPATHY AND FATTY LIVER

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|--|----------------------------|----------|
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLS = 2-12] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLS = 1-10] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 179

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-1]			
* Liver		Basophilic Focus	
[Fatty Change TGLS = 4-4]		Fatty Change	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 2-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 180

TRT#: 5

SEX: Male

DAY ON TEST: 643

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Preputial Gland		Fibrosis	Moderate
[Fibrosis TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
* Stomach, Glandular		Ulcer	Moderate
[Ulcer TGLS = 6-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 684

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Colon		Leiomyoma Ulcer	Marked
[Leiomyoma TGLS = 2-14+15]			
[Ulcer TGLS = 4-15]			
Lymph Node	Renal	Pigmentation	Hemosiderin, Moderate
[Pigmentation TGLS = 1-12]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Pancreas	Acinus	Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: LEIOMYOMA, COLON

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-4]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-7]		
* Testes	Interstitial Cell	Adenoma	
	[Adenoma TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,4,6-2+6+7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,4,6-2+6+7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,4,6-2+6+7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 5-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000844_

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-13]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-7]			
* Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 4-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Pancreas	Acinus	Atrophy	Minimal
	Artery	Inflammation	Chronic, Moderate
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Minimal
[Inflammation TGLS = 2-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 686

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 6-12]		
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung		Inflammation	Subacute, Minimal
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Moderate
	[Inflammation TGLS = 1-10]		
* Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
	[Fibrosis TGLS = 3-1]		
	[Leukemia Mononuclear TGLS = 2-1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-10]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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	* Skin
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OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
Note: NO CORRESPONDING MICROSCOPIC LESION FOR RENAL CYST SEEN			
Note: AT NECROPSY			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-4+13+14+15+16+17]		
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1,4-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|--------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Pituitary Gland | | Cyst | |
| * Spleen | | Fibrosis | Mild |
| Note: INCLUDE THIS TERM | | | |
| Note: LIVER-SPLEEN ADHESION PRESENT, BUT LEXICON DOES NOT | | | |
| [Fibrosis TGLS = 1-1+12] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9100851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Mesothelioma Nos	
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2+3]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
* Testes	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Nos	
[Adenoma TGLS = 2-10]			
[Mesothelioma Nos TGLS = 1-10+13]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
* Spleen		Hemangiosarcoma	
		Leukemia Mononuclear	
[Hemangiosarcoma TGLS = 1-12]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid 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	* Mammary Gland
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OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 692

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Jejunum	* Mammary Gland
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OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Pituitary Gland		Cyst	
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Leukemia Mononuclear	
* Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-4]		
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2,3-12+16]		
	[Leukemia Mononuclear TGLS = 2,3-12+16]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 5-14]		
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLS = 7-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 351

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Kidney | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---|---------------|--------------|-------------------|
| * Brain | Medulla | Gliosis | Minimal |
| * Heart | Myocardium | Degeneration | Minimal |
| * Liver | | | |
| Note: NO CORRESPONDING HISTOPATHOLOGIC LESION FOUND FOR | | | |
| Note: GROSS OBSERVATION OF GRANULAR-APPEARING LIVER | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-7] | | | |
| * Prostate | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-4]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 404

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-13]			
Mesentery	Fat	Inflammation	Moderate
[Inflammation TGLS = 2-12]			
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 673

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 2-7]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-12]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
[Hyperplasia TGLS = 5-5]		Hyperplasia	
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-13]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: CARCINOMA, ZYMBAL'S GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 201

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Atrium	Thrombosis	
[Thrombosis TGLS = 8-4]			
* Intestine Large, Cecum		Ulcer	Marked
[Ulcer TGLS = 7-13]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 5-10]			
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Stomach, Forestomach		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 144

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Lung	Alveolus	Edema	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: PULMONARY EDEMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 504

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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

* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-14+2]			
[Leukemia Mononuclear TGLS = 3,4-14+2]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-15]			
* Pancreas	Acinus	Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Lung		Inflammation	Subacute, Mild
		Squamous Cell Carcinoma	Metastatic (Tooth)
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Ectasia	Mild
Note: NO CORRESPONDING HISTOLOGIC LESION FOR DISCOLORED			
Note: PREPUTIAL GLAND SEEN AT NECROPSY			
[Ectasia TGLS = 2-10]			
* Skin		Fibroma	
[Fibroma TGLS = 4-12]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 3-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Tooth	Gingiva	Squamous Cell Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 206

TRT#: 7

SEX: Male

DAY ON TEST: 126

DOSE: 25 MG/KG

DISP: Dosing Accident

HISTO: 9000866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|--------------------------|-------------------|
| * Lymph Node, Mandibular | * Salivary Glands |
|--------------------------|-------------------|

OBSERVATIONS

- * Esophagus

Note: NO CORRESPONDING MICROSCOPIC LESION FOR ESOPHAGEAL

Note: PERFORATION SEEN AT NECROPSY

- | | | | |
|----------|------------|--------------|----------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Thymus | | Congestion | Moderate |

[Congestion TGLS = 1-2]

PRIMARY CAUSE OF DEATH

-

Animal Note: GROSS FINDINGS

Animal Note: CAUSE OF DEATH: ESOPHAGEAL RUPTURE, ON THE BASIS OF

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 207

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-12]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10+13]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 208	TRT#: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 25 MG/KG	DISP: Terminal Sacrifice	HISTO: 9000868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* 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

* Heart	Myocardium	Degeneration	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 540

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|-----------------------------------|-------------------|---------------------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Lung | | Inflammation | Granulomatous, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLS = 2,3-10] | | |
| * Thymus | | Thymoma Malignant | |
| | [Thymoma Malignant TGLS = 1-12] | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MALIGNANT THYMOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 211

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
Mesentery		Mesothelioma Nos	
[Mesothelioma Nos TGLS = 4-12]			
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 6-7]			
* Spleen		Mesothelioma Nos	
[Mesothelioma Nos TGLS = 5-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Nos	
[Adenoma TGLS = 2-10]			
[Mesothelioma Nos TGLS = 3-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 3-12]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Moderate
[Cyst TGLS = 1-7]			
* Testes	Interstitial Cell	Adenoma	
[Adenoma TGLS = 2-10]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 213

TRT#: 7

SEX: Male

DAY ON TEST: 516

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ZYMBAL'S GLAND CARCINOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS OBSERVATION			
Note: OF ENLARGED LIVER			
* Preputial Gland		Inflammation	Suppurative, Minimal
[Inflammation TGLS = 2-10]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Benign TGLS = 3-7]		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin [Squamous Cell Papilloma TGLS = 2-12]		Squamous Cell Papilloma	
* Testes [Adenoma TGLS = 1-10]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 666

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
		Necrosis	Minimal
	[Necrosis TGLS = 3-12]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-7]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-1]		
* Stomach, Forestomach		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Nos	
Eye			
Note: OCULAR OPACITY SEEN AT NECROPSY			
Note: NO CORRESPONDING HISTOPATHOLOGIC LESION FOR			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Mesothelioma Nos	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Nos	
[Adenoma TGLS = 2-10]			
[Mesothelioma Nos TGLS = 3-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 218

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart	Atrium	Thrombosis	
[Thrombosis TGLS = 4-4]			
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
* Lung		Leukemia Mononuclear	
* Preputial Gland		Ectasia	Mild
Note: NO CORRESPONDING MICROSCOPIC LESION FOR ENLARGED			
Note: PREPUTIAL GLAND SEEN AT NECROPSY			
[Ectasia TGLS = 2-10]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
* Stomach, Forestomach		Ulcer	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 219

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 220

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 1-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 221

TRT#: 7

SEX: Male

DAY ON TEST: 685

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-4]		
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Fibroma	Multiple
	[Fibroma TGLS = 1,5-12+13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-10]		

PRIMARY CAUSE OF DEATH

-

Animal Note: ORGANS, AND DERMAL FIBROMAS

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 222

TRT#: 7

SEX: Male

DAY ON TEST: 673

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-1]			
* Liver		Fatty Change	Mild
[Fatty Change TGLS = 2-12]			
* Lung		Inflammation	Subacute, Mild
* Nose		Inflammation	Suppurative, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: NASAL INFLAMMATION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 223

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Hyperplasia	Tubular, Moderate
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-12]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 2-10]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 224

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: NO CORRESPONDING LESION FOR HEPATIC NODULE SEEN AT TRIM			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 5-7]			
* Skin		Fibroma	
[Fibroma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 3-10]			
[Atrophy TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 584

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Transit Epithe	Hyperplasia Nephropathy	Moderate Mild
* Liver	Portal	Degeneration Congestion	Moderate Moderate
* Lymph Node, Mesenteric [Congestion TGLS = 4-13]			
Mesentery [Necrosis TGLS = 3-12]	Fat	Necrosis	Moderate
* Pancreas	Acinus	Atrophy	Marked
* Stomach, Forestomach		Ulcer	Moderate
* Testes [Adenoma TGLS = 1,2-10]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: OF MUCUS SECRETION IN THE LUMENS OF LARGE INTESTINE,

Animal Note: THIS WAS NOT TABULATED AS A LESION

Animal Note: CAUSE OF MORB: IMPACTION OF LARGE INTESTINAL CONTENTS;

Animal Note: NO CORRESPONDING LESION FOR LARGE INTESTINAL FECAL

Animal Note: CHLOLESTASIS, ON BASIS OF DILATED COMMON BILE DUCT AND

Animal Note: EVIDENT JAUNDICE

Animal Note: HISTOLOGICALLY VISIBLE LIVER DEGENERATION AND GROSSLY

Animal Note: ACCUMULATION SEEN AT NECROPSY; THERE WAS A LARGE AMOUNT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 584

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000885

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|--------------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 227

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver			
Note: SEEN AT TRIM			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR LIVER DEFORMITY			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperkeratosis	Moderate
[Hyperkeratosis TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 713

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lung		Leukemia Mononuclear	
Lymph Node		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Fibrosis	Moderate
[Fibrosis TGLS = 6-6]			
* Pituitary Gland		Cyst	
[Cyst TGLS = 4-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
* Stomach, Forestomach		Ulcer	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 713

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000888

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: OF CECAL DILATATION SEEN AT NECROPSY

Animal Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS FINDING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 575

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,4,7-2+15+18]			
[Leukemia Mononuclear TGLS = 2,4,7-2+15+18]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,4,7-2+15+18]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Leukemia Mononuclear	
[Adenoma TGLS = 1-7]			
Spinal Cord	Nerve	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-16]			
* Stomach, Forestomach		Ulcer	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA AND ADENOMA,

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 575

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000889

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: PARS DISTALIS, PITUITARY GLAND

Animal Note: OBSERVATION OF RENAL LYMPH NODE ENLARGEMENT BECAUSE THE

Animal Note: NO CORRESPONDING LESION FOUND TO CORRESPOND WITH GROSS

Animal Note: TISSUE COULD NOT BE IDENTIFIED BY THE TISSUE TRIMMERS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 230

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 231

TRT#: 7

SEX: Male

DAY ON TEST: 679

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Fibrosis	Moderate
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 232

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
Eye	Lens	Cataract	Moderate
[Cataract TGLS = 1-13]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
[Hepatocellular Adenoma TGLS = 4-12]			
[Hepatodiaphragmatic Nodule TGLS = 3-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 656

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Angiectasis	Marked
[Angiectasis TGLS = 4-13]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 6-1+12]			
[Leukemia Mononuclear TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * 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 Cortex | | Hyperplasia | Mild |
| Ear | External Ear | Inflammation | Chronic, Minimal |
| [Inflammation TGLS = 1-12] | | | |
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 2-13] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| [Hyperplasia TGLS = 4-7] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 3-10] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 235

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
	Myocardium	Degeneration	Minimal
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 1-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 565

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
	Atrium	Thrombosis	
	[Thrombosis TGLS = 6-4]		
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Moderate
		Leukemia Mononuclear	
	Note: OBSERVATION OF MEDIAN LOBE NODULE		
	Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS		
	[Leukemia Mononuclear TGLS = 4-4+12]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-2]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 2-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 565

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000896

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ATRIAL THROMBOSIS AND MONONUCLEAR CELL

Animal Note: LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 237

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 238

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Leukemia Mononuclear Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-2+3]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5,7,8-13+14+2]			
[Leukemia Mononuclear TGLS = 5,7,8-13+14+2]			
[Leukemia Mononuclear TGLS = 5,7,8-13+14+2]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-15]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 10-6+16]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 238	TRT#: 7	SEX: Male	DAY ON TEST: 589
	DOSE: 25 MG/KG	DISP: Moribund Sacrifice	HISTO: 9000898

ORGAN AND ACCOUNTABLE SITE STATUS

	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1-10]			
[Atrophy TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-7+12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 240

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Blood Vessel

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR HEPATIC			
Note: NODULE SEEN AT TRIM			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4,5-13]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 2-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	Follicle	Dilatation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Inflammation	Acute, Focal, Minimal
Note: LOBE SEEN AT NECROPSY			
Note: NO CORRESPONDING LESION FOR DEFORMITY OF LEFT LATERAL LIVER			
* Pancreas	Acinus	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-11+12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
[Cyst TGLS = 5-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	Spinal Cord	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Blood Vessel		Mineralization	Moderate
Eye	Cornea	Necrosis	Moderate
[Necrosis TGLS = 1-16]			
* Heart	Myocardium	Mineralization	Mild
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2+3]			
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6,7,8,9-12+13+14+15]			
[Leukemia Mononuclear TGLS = 6,7,8,9-12+13+14+15]			
[Leukemia Mononuclear TGLS = 6,7,8,9-12+13+14+15]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6,7,8,9-12+13+14+15]			
Peripheral Nerve		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 243	TRT#: 2 DOSE: 0 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 9000783
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-11]		Leukemia Mononuclear	
* Stomach, Forestomach [Hyperkeratosis TGLS = 11-6]		Hyperkeratosis	Mild
* Stomach, Glandular	Artery	Mineralization	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11+12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 663

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular		Ulcer	Mild
[Ulcer TGLS = 2-6]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | |
|--|----------------------|
| * Kidney
[Cyst TGLS = 5-13] | Cyst |
| * Liver
[Leukemia Mononuclear TGLS = 3-4] | Leukemia Mononuclear |
| * Lung | Leukemia Mononuclear |
| * Pituitary Gland
[Cyst TGLS = 4-7] | Cyst |
| * Skin
[Sarcoma TGLS = 1-11] | Sarcoma |
| * Spleen
[Leukemia Mononuclear TGLS = 2-12] | Leukemia Mononuclear |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 582

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-12]		
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
	[Cyst TGLS = 2-7]		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Uterus		Schwannoma Nos	
	[Schwannoma Nos TGLS = 1-11]		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: SCHWANNOMA NOS OF UTERUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 248

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Schwannoma Nos	
* Intestine Large, Colon		Parasite Metazoan	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 660

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Ear			
Note: NO MICROSCOPIC LESION OF INNER EAR WAS SEEN, BUT			
Note: INTRACRANIAL VIII CRANIAL NERVE BY PITUITARY ADENOMA			
Note: THERE WAS HISTOLOGICAL EVIDENCE OF COMPRESSION OF THE			
* Kidney		Nephropathy	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 250	TRT#: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 9000790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Heart	Myocardium	Degeneration	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 252

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Ectasia	Mild
Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS			
Note: OBSERVATION OF ENLARGED CLITORAL GLAND			
[Ectasia TGLS = 1-10]			
* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 253

TRT#: 2

SEX: Female

DAY ON TEST: 437

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland		Cyst	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CASE OF MORIBUND CONDITION: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 627

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------|--|----------|
| * Adrenal Medulla
[Pheochromocytoma Benign TGLS = 6-11] | | Pheochromocytoma Benign | |
| Eye
Note: NO CORRESPONDING LESION FOR OCULAR OPACITY SEEN AT NECR | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver

[Hepatodiaphragmatic Nodule TGLS = 4-4] | | Basophilic Focus
Eosinophilic Focus
Hepatodiaphragmatic Nodule | |
| * Mammary Gland
[Fibroadenoma TGLS = 3-12] | | Fibroadenoma | |
| * Pituitary Gland
[Hyperplasia TGLS = 2-7] | Pars Distalis | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: FIBROADENOMA, MAMMARY GLAND,

Animal Note: PHEOCHROMOCYTOMA, ADRENAL GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Ectasia	Mild
[Ectasia TGLS = 2-10]			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Moderate
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 3-4]			
[Fatty Change TGLS = 4-4]			
[Mixed Cell Focus TGLS = 3-4]			
* Lung		Infiltration Cellular	Mononuclear CI, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-7]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 6,7-6+11]			
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000795

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Uterus		Polyp Stromal	

[Polyp Stromal TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 685

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5,6-5+12]			
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
* Pituitary Gland		Cyst	
[Cyst TGLS = 7-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
* Stomach, Forestomach		Ulcer	Minimal
[Ulcer TGLS = 8-15,8-15]			
* Stomach, Glandular		Ulcer	Mild
[Ulcer TGLS = 8-15,8-15]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------------------|------------|----------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-4] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Pituitary Gland | | Cyst | |
| [Cyst TGLS = 1-7] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-11] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 260

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Ectasia	Mild
Note: ENLARGEMENT SEEN AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR CLITORAL GLAND			
[Ectasia TGLS = 1-10]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-11+12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-7]			
* Spleen		Leukemia Mononuclear	
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 5-16]			
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Carcinoma TGLS = 2-12]			
[Fibroadenoma TGLS = 1-11]			
[Hyperplasia TGLS = 3-13+14]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 562

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | |
|--|----------------------------|----------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Hepatodiaphragmatic Nodule | |
| | Leukemia Mononuclear | |
| [Hepatodiaphragmatic Nodule TGLS = 4-12] | | |
| [Leukemia Mononuclear TGLS = 2-4+12] | | |
| * Lung | Leukemia Mononuclear | |
| * Pituitary Gland | Cyst | |
| [Cyst TGLS = 5-7] | | |
| * Spleen | Fibrosis | Mild |
| | Leukemia Mononuclear | |
| [Fibrosis TGLS = 3-11] | | |
| [Leukemia Mononuclear TGLS = 1-11] | | |
| * Stomach, Glandular | Ulcer | Moderate |
| [Ulcer TGLS = 6-6+13] | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 264

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [Inflammation TGLS = 1-10]		Inflammation	Suppurative, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland [Fibroadenoma TGLS = 2-11]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex [Hyperplasia TGLS = 3-7]		Hyperplasia	Marked
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Eosinophilic Focus Hyperplasia	Adenomatous, Mild
* Lung		Erythrophagocytosis	Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-11] [Hyperplasia TGLS = 2-12]		Fibroadenoma Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 374

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Leukemia Mononuclear	
* Liver	Leukemia Mononuclear	
* Lung	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Inflammation	Subacute, Moderate
* Pituitary Gland	Cyst	
* Salivary Glands	Inflammation	Subacute, Mild
* Spleen	Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 1-11]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORIBUND CONDITION: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Mild
[Hepatodiaphragmatic Nodule TGLS = 1-11]			
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
		[Hepatocellular Adenoma TGLS = 4-4]	
		[Hepatodiaphragmatic Nodule TGLS = 6-13]	
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1,2-11+12]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
		[Adenoma TGLS = 5-7]	
* Uterus		Polyp Stromal	
		[Polyp Stromal TGLS = 3-10]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: CLITORAL GLAND TISSUE MADE AT TRIM IS REGARDED AS AN
Animal Note: OR IN RESIDUAL WET TISSUE. THE OBSERVATION OF ENLARGED
Animal Note: NO CLITORAL GLAND TISSUE WAS FOUND ON HISTOLOGIC SLIDES
Animal Note: ERRONEOUS OBSERVATION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-12]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-11]			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 461

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------------------|---------------|-----------------------|--------------------------|
| * Adrenal Cortex | | Degeneration | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-7] | | | |
| Vagina | | Infiltration Cellular | Polymorphnuclr, Moderate |
| [Infiltration Cellular TGLS = 1-11] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: PITUITARY GLAND ADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-12]		
* Pituitary Gland		Cyst	
* Spleen			

Note: NO CORRESPONDING LESION FOR SPLENIC ENLARGEMENT SEEN

Note: AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: NECROPSY

Animal Note: NO CORRESPONDING LESION FOR STOMACH DIVERTICULUM SEEN AT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-10]			
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: FOCUS SEEN AT TISSUE TRIM			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR NODULES AND			
[Hepatodiaphragmatic Nodule TGLS = 6-13]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,3-11+12]			
* Ovary		Cyst	
[Cyst TGLS = 4-10]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Rectum		Parasite Metazoan	
* Liver		Leukemia Mononuclear	
Note: NO CORRESPONDING LESION FOR GRANULAR APPEARANCE OF			
Note: LIVER SEEN AT NECROPSY			
* Lung		Inflammation	Subacute, Minimal
		Leukemia Mononuclear	
		Fibroadenoma	Multiple
* Mammary Gland			
[Fibroadenoma TGLS = 1,2-11+12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-7]			
* Spleen		Fibrosis	Minimal
[Fibrosis TGLS = 6-13]			
[Leukemia Mononuclear TGLS = 3-1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------|----------------------------|---------|
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 2-4] | | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| [Angiectasis TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
Note: OBSERVATIONS OF LIVER NODULES AND FOCI SEEN AT TRIM			
Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR GROSS			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-11+15]			
* Pituitary Gland	Pars Distalis	Cyst	
		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 463

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: PITUITARY ADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 693

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------|--------------|------|
| * Heart | Myocardium | Degeneration | Mild |
| * Liver | | | |
| Note: NO CORRESPONDING LESION FOR GRANULAR APPEARANCE OF | | | |
| Note: LIVER NOTED AT NECROPSY | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-7] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: MAMMARY GLAND FIBROADENOMA

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND,

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
[Cyst TGLS = 3-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 283

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 5,6,7,8-4+13+14]		
* Lung	Alveolar Epith	Hemorrhage	Minimal
	[Hemorrhage TGLS = 9-15]	Hyperplasia	Minimal
	[Hyperplasia TGLS = 9-15]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,2,3-17+18+19]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-16]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|----------------|----------------------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Pituitary Gland | | Cyst | |
| * Urinary Bladder | | Calculus Gross Observation | |
| | Transit Epithe | Hyperplasia | Marked |

[Calculus Gross Observation TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 671

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [Inflammation TGLS = 3-10]		Inflammation	Suppurative, Moderate
* Heart	Myocardium	Degeneration	Minimal
* Mammary Gland [Fibroadenoma TGLS = 1,2-11+12]		Fibroadenoma	Multiple
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: FIBROADENOMAS, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Pituitary Gland		Cyst	
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-11]		
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
Note: NODULES AND FOCI SEEN AT TRIM			
Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR HEPATIC			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 288

TRT#: 2

SEX: Female

DAY ON TEST: 562

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Leukemia Mononuclear
* Liver	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 1-4]	
* Lung	Leukemia Mononuclear
* Mammary Gland	Fibroadenoma
[Fibroadenoma TGLS = 2-11]	
* Pituitary Gland	Cyst
[Cyst TGLS = 3-7]	
* Spleen	Leukemia Mononuclear
* Stom Gland	

Note: DISCOLORED LESION OF THE GLANDULAR STOMACH

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MAMMARY FIBROADENOMA

Animal Note: NO CORRESPONDING LESION FOR SINGLE 1X1X1MM BLACK

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland [Fibroadenoma TGLS = 1,2-11+12]		Fibroadenoma	Multiple
* Pituitary Gland [Adenoma TGLS = 3-7]	Pars Distalis	Adenoma Cyst	
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 290

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Esophagus

OBSERVATIONS

- | | | | |
|--------------------------|---------------|------------------|---------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | | Cyst | |
| | Pars Distalis | Hyperplasia | Minimal |
| * Thyroid Gland | C Cell | Carcinoma | |
| [Carcinoma TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 291

TRT#: 2

SEX: Female

DAY ON TEST: 611

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9000831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Small, Jejunum

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-11]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Rectum		Parasite Metazoan	
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-11]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 293

TRT#: 2

SEX: Female

DAY ON TEST: 658

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]		Cyst	
* Skin	Sebaceous GI	Adenoma	
[Adenoma TGLS = 2-12]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND AND ADENOMA,

Animal Note: PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 294

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|--------------------------------------|----------------------|---------------------|
| * Blood Vessel | Inflammation | Granulomatous, Mild |
| * Clitoral Gland | Adenoma | |
| [Adenoma TGLS = 2-12] | | |
| * Liver | Basophilic Focus | |
| [Leukemia Mononuclear TGLS = 4-4] | Leukemia Mononuclear | |
| * Mammary Gland | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | |
| * Pituitary Gland | Cyst | |
| [Cyst TGLS = 5-7] | Pigmentation | Hemosiderin, Mild |
| * Spleen | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-13] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
Note: NO CORRESPONDING LESION FOR HEPATIC FOCI SEEN AT NECROPSY			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 297

TRT#: 2

SEX: Female

DAY ON TEST: 611

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	

Note: OBSERVATIONS OF 3X3X3 MM FOCUS ON MEDIAN LOBE AND

Note: 1X1X1 MM FOCI OF LEFT LATERAL LOBE

Note: NO CORRESPONDING MICROSCOPIC LESIONS SEEN FOR GROSS

[Eosinophilic Focus TGLS = 5-4]

[Hepatodiaphragmatic Nodule TGLS = 3-12]

* Mammary Gland Fibroadenoma

[Fibroadenoma TGLS = 1-14+15]

* Pituitary Gland Cyst

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 298

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------|--|------------------|
| * Clitoral Gland
Note: NO CORRESPONDING MICROSCOPIC LESION FOR DISCOLORED
Note: CLITORAL GLAND SEEN AT NECROPSY
[Ectasia TGLS = 1-10] | | Ectasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver
[Basophilic Focus TGLS = 4-4]
[Hepatodiaphragmatic Nodule TGLS = 2-11] | | Basophilic Focus
Hepatodiaphragmatic Nodule | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland
[Adenoma TGLS = 3-7] | Pars Distalis | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 299

TRT#: 2

SEX: Female

DAY ON TEST: 457

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
	Myocardium	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 300

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Ectasia	Mild
Note: CLITORAL GLAND NOTED AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR ENLARGED			
[Ectasia TGLS = 1-10]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 379

DOSE: 1 MG/KG

DISP: Dosing Accident

HISTO: 9001141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

- | | |
|--------------------------|----------------------------|
| * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|--|------------|--------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Lung | | | |
| Note: NO CORRESPONDING MICROSCOPIC LESION NOTED FOR GROSS | | | |
| Note: OBSERVATION OF MOTTLED LUNGS | | | |
| Note: BACTERIA NOTED IN LUNG, AND JUDGED TO BE POSTMORTEM GROWTH | | | |
| * Pituitary Gland | | Cyst | |

PRIMARY CAUSE OF DEATH

-
- Animal Note: LUNGS.
- Animal Note: SITE OF THIS UNUSUALLY HEAVY BACTERIAL GROWTH IS THE
- Animal Note: HEAVY POSTMORTEM BACTERIAL GROWTH IN AN OTHERWISE
- Animal Note: CAUSE OF DEATH: DOSING ACCIDENT, ON THE BASIS OF UNUSUALLY
- Animal Note: POSTMORTEM AUTOLYSIS-FREE ANIMAL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|---|---------------|----------------------------|
| * Liver | | Hepatodiaphragmatic Nodule |
| [Hepatodiaphragmatic Nodule TGLS = 4,5-4+13] | | |
| * Mammary Gland | | Fibroadenoma |
| [Fibroadenoma TGLS = 3-11+12] | | |
| * Pituitary Gland | Pars Distalis | Adenoma |
| [Adenoma TGLS = 1-7] | | Cyst |
| * Skin | | |
| Note: SEEN AT NECROPSY | | |
| Note: NO CORRESPONDING LESION FOR DERMAL NODULE OF TAIL | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
Note: GLAND ENLARGEMENT SEEN AT NECROPSY			
Note: NO CORRESPONDING LESION FOR RIGHT CLITORAL			
[Hyperplasia TGLS = 3-10]			
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11+12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-7]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 4-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Myelostromal Proliferation	
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 5-10]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 7-12]			
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Mammary Gland		Inflammation	Moderate
[Inflammation TGLS = 1,2,3,4-11+13+14+15]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
[Adenoma TGLS = 6-7]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 562

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: ADENOMA

Animal Note: CAUSE OF MORB: FIBROADENOMA OF MAMMARY GLAND, PITUITARY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 239

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------|----------------------------|---------|
| * Liver | | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 1-11] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 2-12] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 308	TRT#: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 1 MG/KG	DISP: Terminal Sacrifice	HISTO: 9001148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-4]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 463

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 178

DOSE: 1 MG/KG

DISP: Dosing Accident

HISTO: 9001150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Colon	Parasite Metazoan	
* Liver	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-11]		
* Lung	Foreign Body	Mild
Note: FOREIGN BODY APPEARS TO BE FOOD		
* Nose	Exudate	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: INHALED INGESTA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung

Note: FOUND AT NECROPSY

Note: NO CORRESPONDING LESION FOR RED DISCOLORATION OF LUNGS

PRIMARY CAUSE OF DEATH

-

Animal Note: THIS ANIMAL ACCIDENTALLY DROWNED IN ITS CAGE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

OBSERVATIONS

* Lung

Note: NO CORRESPONDING LESION FOR RED, MOTTLED LUNGS SEEN

Note: AT NECROPSY

* Ovary

Cyst

[Cyst TGLS = 2-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: THIS ANIMAL ACCIDENTALLY DROWNED

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Islets, Pancreatic

* Kidney

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

MISSING

* Intestine Small, Jejunum

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Lung

Note: NO CORRESPONDING LESION FOR RED/MOTTLED LUNGS

Note: OBSERVED AT NECROPSY

PRIMARY CAUSE OF DEATH -

Animal Note: THIS ANIMAL DROWNED ACCIDENTALLY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Lung

Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS

Note: OBSERVATION OF RED, MOTTLED LUNG

* Pituitary Gland

Cyst

PRIMARY CAUSE OF DEATH

-

Animal Note: THIS ANIMAL DROWNED ACCIDENTALLY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

OBSERVATIONS

* Lung

Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS

Note: OBSERVATION OF MOTTLED/RED DISCOLORED LUNGS

PRIMARY CAUSE OF DEATH

-

Animal Note: THE CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Bone Marrow

* Heart

* Intestine Small, Duodenum

* Kidney

* Lymph Node, Mesenteric

* Pancreas

* Skin

* Thymus

* Uterus

* Adrenal Medulla

* Brain

* Intestine Large, Cecum

* Intestine Small, Ileum

* Liver

* Mammary Gland

* Parathyroid Gland

* Spleen

* Thyroid Gland

* Blood Vessel

* Clitoral Gland

* Intestine Large, Colon

* Intestine Small, Jejunum

* Lung

* Nose

* Pituitary Gland

* Stomach, Forestomach

* Trachea

* Bone

* Esophagus

* Intestine Large, Rectum

* Islets, Pancreatic

* Lymph Node, Mandibular

* Ovary

* Salivary Glands

* Stomach, Glandular

* Urinary Bladder

OBSERVATIONS

* Lung

Note: NO CORRESPONDING HISTOPATHOLOGIC LESION FOUND FOR RED,

Note: MOTTLED APPEARANCE OF LUNG SEEN AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: THE CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung

Note: NO CORRESPONDING LESION FOR RED/MOTTLED APPEARANCE OF

Note: THE LUNGS WHICH WAS NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: THE CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Lung			

Note: OBSERVATION OF MOTTLED, RED LUNGS MADE AT NECROPSY

Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR THE GROSS

PRIMARY CAUSE OF DEATH

-

Animal Note: THE CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Lung

Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR GROSS

Note: OBSERVATION OF MOTTLED, RED LUNGS FOUND AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: THE CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Liver

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

OBSERVATIONS

* Lung

Alveolus

Edema

Marked

[Edema TGLS = 1-2+3]

PRIMARY CAUSE OF DEATH

-

Animal Note: THE CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung

Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS OBSERVATION

Note: OF MOTTLED/RED LUNGS MADE AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Heart
* Intestine Small, Duodenum
* Kidney
* Lymph Node, Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Adrenal Medulla
* Brain
* Intestine Large, Cecum
* Intestine Small, Ileum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Blood Vessel
* Clitoral Gland
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lung
* Nose
* Pituitary Gland
* Stomach, Forestomach
* Trachea

* Bone
* Esophagus
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mandibular
* Ovary
* Salivary Glands
* Stomach, Glandular
* Urinary Bladder

OBSERVATIONS

* Lung

Note: DISCOLORATION OF LUNGS NOTED AT NECROPSY

Note: NO CORRESPONDING MICROSCOPIC LESION FOR MOTTLED, RED

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF THIS ANIMAL'S DEATH IS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | |
|--------------------------|-------------------|
| * Intestine Large, Colon | Parasite Metazoan |
| * Lung | |

Note: NO CORRESPONDING MICROSCOPIC LESION FOR RED, MOTTLED

Note: APPEARANCE OF LUNG SEEN AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF THIS ANIMAL'S DEATH WAS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

OBSERVATIONS

* Lung

Note: OBSERVATION OF RED/MOTTLED LUNG MADE AT NECROPSY

Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS

* Pituitary Gland

Cyst

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF THIS ANIMAL'S DEATH: ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:24

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 204

DOSE: 1 MG/KG

DISP: Accidentally Killed

HISTO: 9001166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung

Note: NO CORRESPONDING MICROSCOPIC LESION FOR RED/MOTTLED LUNGS

Note: NOTED AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF THIS ANIMAL'S DEATH IS ACCIDENTAL DROWNING

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:24
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 463

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 467

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNKOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 358

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

OBSERVATIONS

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 2-12]

Mesentery

Fat

Necrosis

Mild

[Necrosis TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 299

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Heart
* Intestine Small, Duodenum
* Kidney
* Lymph Node, Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Adrenal Medulla
* Brain
* Intestine Large, Cecum
* Intestine Small, Ileum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Blood Vessel
* Clitoral Gland
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lung
* Nose
* Pituitary Gland
* Stomach, Forestomach
* Trachea

* Bone
* Esophagus
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mandibular
* Ovary
* Salivary Glands
* Stomach, Glandular
* Urinary Bladder

OBSERVATIONS

* Lung

Note: OBSERVATION OF DARK AND RED LUNGS

Note: NO CORRESPONDING MICROSCOPIC LESION FOR GROSS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNKOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland		Cyst	
[Cyst TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Osteopetrosis	Moderate
* Clitoral Gland [Inflammation TGLS = 1-10]	Inflammation	Suppurative, Minimal
* Kidney	Nephropathy	Minimal
* Liver [Hepatodiaphragmatic Nodule TGLS = 2-11]	Hepatodiaphragmatic Nodule	
* Pituitary Gland	Cyst	
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 628

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Intestine Small, Duodenum [Inflammation TGLS = 5-6]		Inflammation	Chronic, Mild
* Intestine Small, Jejunum [Inflammation TGLS = 5-6]		Inflammation	Chronic, Mild
* Mammary Gland [Fibroadenoma TGLS = 1,2,3-11+12+13]		Fibroadenoma	Multiple
* Pituitary Gland [Adenoma TGLS = 4-7]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 635

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-5]			
Eye		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-16]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7,8-2+6]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7,8-2+6]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 6-17]			
* Pituitary Gland		Cyst	
[Cyst TGLS = 2-7]			
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-15]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 10-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 635

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001175

ORGAN AND ACCOUNTABLE SITE STATUS

* Urin Bladder

Note: NO CORRESPONDING LESION FOR URINARY BLADDER DILATATION

Note: SEEN AT NECROPSY

PRIMARY CAUSE OF DEATH

-

Animal Note: AND FIBROADENOMA, MAMMARY GLAND

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 357

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

OBSERVATIONS

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-11]

* Lung

Note: PRESENT DUE TO POSTMORTEM PROLIFERATION

Note: BACTERIA NOTED IN ALVEOLI OF LUNGS, BUT ARE JUDGED TO BE

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 562

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Eye

Note: OPACITY NOTED AT NECROPSY

Note: NO CORRESPONDING HISTOPATHOLOGIC LESION SEEN FOR EYE

* Heart

Myocardium

Degeneration

Minimal

* Liver

Note: TAN FOCI OF LEFT LATERAL LOBE SEEN AT TISSUE TRIM

Note: NO CORRESPONDING HISTOPATHOLOGIC LESION FOUND FOR

* Pituitary Gland

Cyst

[Cyst TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Heart	Atrium	Thrombosis	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		Necrosis	Mild
[Leukemia Mononuclear TGLS = 1-11]			
[Necrosis TGLS = 3-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 408

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------|---------------|--------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 1-11] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: PITUITARY ADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 377

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Pituitary Gland Cyst

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Pituitary Gland Cyst

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Esophagus	* Parathyroid Gland
-------------	---------------------

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Inflammation	Chronic, Mild
[Inflammation TGLS = 4-4]			
* Mammary Gland		Edema	Moderate
[Edema TGLS = 3-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-11]			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 2-7]			
* Uterus		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 379

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | | |
|--------------------------|----------------------------|---------------------|
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Parathyroid Gland |
|--------------------------|----------------------------|---------------------|

OBSERVATIONS

- | | | |
|---|----------------------------------|------|
| * Liver | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 3-11] | | |
| * Lung | | |
| Note: NO CORRESPONDING LESION FOR MOTTLED LUNGS SEEN AT | | |
| Note: NECROPSY | | |
| * Spleen | Hematopoietic Cell Proliferation | Mild |
| * Uterus | Polyp Stromal | |
| [Polyp Stromal TGLS = 1-10] | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 628

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Ectasia	Mild
Note: CLITORAL GLAND ENLARGEMENT SEEN AT TRIM			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR [Ectasia TGLS = 2-10]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Inflammation	Granulomatous, Minimal
* Pancreas	Acinus	Atrophy	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 572

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Esophagus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear CI, Mild
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 726

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,4-11+13]			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Skin		Ulcer	Mild
[Ulcer TGLS = 2-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Dilatation	Moderate
[Dilatation TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 544

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|---------------|------------------|---------------------|
| * Clitoral Gland | | Inflammation | Suppurative, Marked |
| [Inflammation TGLS = 2-12] | | | |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | | Cyst | |
| | Pars Distalis | Hyperplasia | Marked |
| * Skin | | Ulcer | Marked |
| [Ulcer TGLS = 1-11] | | | |

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: SKIN ULCERATION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 581

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
[Fatty Change TGLS = 3-4]			
Lymph Node	Renal	Pigmentation	Hemosiderin, Marked
[Pigmentation TGLS = 4-11]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Pituitary Gland		Cyst	
[Cyst TGLS = 1-7]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 351

TRT#: 4

SEX: Female

DAY ON TEST: 517

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Cyst Hyperplasia	Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 352

TRT#: 4

SEX: Female

DAY ON TEST: 726

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Ear	External Ear	Ulcer	Mild
[Ulcer TGLS = 1,2-11]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Ovary		Cyst	
[Cyst TGLS = 3-10]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 353

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Osteopetrosis	Moderate
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR HEPATIC			
Note: DEFORMITY SEEN AT NECROPSY			
* Pancreas	Acinus	Atrophy	Minimal
	Artery	Inflammation	Chronic, Mild
* Pituitary Gland		Cyst	

[Cyst TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 726

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hepatodiaphragmatic Nodule	
	Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 3-4]		
[Leukemia Mononuclear TGLS = 2-4]		
* Lung	Leukemia Mononuclear	
* Pituitary Gland	Cyst	
* Spleen	Fibrosis	Minimal
	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 635

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Brain	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]		
* Kidney	Nephropathy	Minimal
* Liver	Leukemia Mononuclear	
* Lung	Leukemia Mononuclear	
* Pituitary Gland	Cyst	
Spinal Cord	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2-15]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 541

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 357

TRT#: 4

SEX: Female

DAY ON TEST: 519

DOSE: 1 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---|---------------|----------------------|------------------|
| * Brain | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6,7-5+14] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-4] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Mammary Gland | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 2-12] | | | |
| * Pituitary Gland | Pars Distalis | Cyst | |
| [Hyperplasia TGLS = 3-7] | | Hyperplasia | Marked |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLS = 1-11] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-13] | | | |
| * Stom Gland | | | |
| Note: OF GLANDULAR STOMACH SEEN AT NECROPSY | | | |

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

Animal Note: NO CORRESPONDING LESION FOR BROWN DISCOLORATION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 1 MG/KG

DISP: Natural Death

HISTO: 9001198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Eye

Note: NO CORRESPONDING LESION FOR OCULAR OPACITY SEEN

Note: AT NECROPSY

- | | | |
|-------------------|---------------|------------------|
| * Liver | | Basophilic Focus |
| * Pituitary Gland | Pars Distalis | Adenoma |
| | | Cyst |

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 4-10]			
* Liver		Eosinophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 2-11]		Fibroadenoma	
[Fibroadenoma TGLS = 3-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
[Hyperplasia TGLS = 1-7]		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 360

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 3-4,4-12]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 600

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
* Stomach, Forestomach		Ulcer	Moderate
[Ulcer TGLS = 3-12]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------|----------------|-------------------|------|
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Liver | | Basophilic Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLS = 1-10] | | | |
| * Pituitary Gland | | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 547

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-10]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]		Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland		Cyst	
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------|----------------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-4] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-7] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-1] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

Animal Note: AND MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-4]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Cyst	
		Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 368	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 5 MG/KG	DISP: Terminal Sacrifice	HISTO: 9001028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLS = 1-10]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
Note: NODULES NOTED AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR HEPATIC			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-11+12]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 4-7]			
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex [Adenoma TGLS = 3-12]		Adenoma	
* Adrenal Medulla		Hyperplasia	Moderate
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver [Necrosis TGLS = 2-4+13]		Necrosis	Mild
* Lung		Inflammation	Subacute, Mild
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland [Cyst TGLS = 4-7]		Cyst	
* Spleen [Hematopoietic Cell Proliferation TGLS = 1-11]		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [Inflammation TGLS = 3-10]	Inflammation	Suppurative, Minimal
* Liver	Basophilic Focus	
* Mammary Gland [Fibroadenoma TGLS = 1-11]	Fibroadenoma	
* Pituitary Gland [Cyst TGLS = 2-7]	Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 697

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]		Necrosis	Mild
[Necrosis TGLS = 3-11]			
* Stomach, Glandular		Ulcer	Mild
[Ulcer TGLS = 4-12]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Rectum		Parasite Metazoan
* Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-7]			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Pituitary Gland Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 622

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

MISSING

* Parathyroid Gland	* Urinary Bladder
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Infarct	Moderate
[Infarct TGLS = 2-1]			
Mesentery	Fat	Necrosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Heart
* Intestine Small, Duodenum
* Kidney
* Lymph Node, Mesenteric
* Pancreas
* Spleen
* Thyroid Gland

* Adrenal Medulla
* Brain
* Intestine Large, Cecum
* Intestine Small, Ileum
* Liver
* Mammary Gland
* Parathyroid Gland
* Stomach, Forestomach
* Trachea

* Blood Vessel
* Clitoral Gland
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lung
* Nose
* Salivary Glands
* Stomach, Glandular
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mandibular
* Ovary
* Skin
* Thymus
* Uterus

OBSERVATIONS

* Pituitary Gland

Pars Distalis

Cyst

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 377	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 5 MG/KG	DISP: Terminal Sacrifice	HISTO: 9001037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 237

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Islets, Pancreatic

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | | | |

OBSERVATIONS

- | | | | |
|----------|------------|--------------|----------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Hemorrhage | Moderate |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 547

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Cyst Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-11+12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]		Cyst	
* Thymus		Thymoma Malignant	
[Thymoma Malignant TGLS = 4-13]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

Animal Note: AND FIBROADENOMAS, MAMMARY GLANDS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Pituitary Gland Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 5 MG/KG

DISP: Dosing Accident

HISTO: 9001042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Esophagus

Note: AT NECROPSY

Note: NO CORRESPONDING LESION FOR ESOPHAGEAL LACERATION SEEN

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: PROBABLY ASPHYXIATION DUE TO GAVAGE

Animal Note: ERROR, BASED ON NECROPSY FINDING OF ESOPHAGEAL LACERATION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|--|----------------------------|---------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 1-11] | | |
| * Pituitary Gland | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 700

DOSE: 5 MG/KG

DISP: Dosing Accident

HISTO: 9001044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Moderate
* Lung	Bronchus	Foreign Body Inflammation	Moderate Acute, Moderate
[Inflammation TGLS = 1-11]			
* Nose		Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ASPIRATION PNEUMONIA, PROBABLY DUE TO

Animal Note: GAVAGE ERROR

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|---------------|------------------|---------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 386

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | |
|--------------------------------------|-------------|----------------------|
| * Liver | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 2-4] | | |
| * Lung | | Leukemia Mononuclear |
| Lymph Node | Mediastinal | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 4-13] | | |
| * Mammary Gland | | Fibroadenoma |
| [Fibroadenoma TGLS = 3-12] | | |
| * Pituitary Gland | | Cyst |
| * Spleen | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 1-11] | | |
| * Uterus | | Polyp Stromal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart	Myocardium	Degeneration	Minimal
	Atrium	Thrombosis	
* Intestine Large, Colon		Parasite Metazoan	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3,4-11+12+13]			
* Pituitary Gland		Cyst	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 700

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 471

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
Mesentery	Lymphatic	Cyst	
[Cyst TGLS = 1-11]			
* Pituitary Gland		Cyst	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UTERINE POLYP

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
		Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 391

TRT#: 6

SEX: Female

DAY ON TEST: 325

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: AND NODULES NOTED AT NECROPSY			
Note: NO CORRESPONDING LESION FOR HEPATIC DISCOLORATION			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Kidney | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|--|---------------|----------------------|----------|
| * Bone | | Osteopetrosis | Moderate |
| * Heart | Myocardium | Degeneration | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Leukemia Mononuclear | |
| | | | |
| [Leukemia Mononuclear TGLS = 2-4+12] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | | |
| * Pituitary Gland | | Cyst | |
| | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland		Cyst	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 396

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|------------|------------------|---------|
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | | |
| * Pituitary Gland | | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 5-4]			
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 2-14]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-7]			
* Skin		Acanthosis	Minimal
[Acanthosis TGLS = 1-13]			
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 3-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 467

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lymph Node, Mandibular [Inflammation TGLS = 2-7]	Inflammation	Chronic, Moderate
* Pituitary Gland	Cyst	
* Salivary Glands	Inflammation	Chronic, Mild
* Skin [Ulcer TGLS = 1-11]	Ulcer	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: THIS TYPE OF DISEASE PROCESS IS INITIATED BY FOREIGN

Animal Note: CAUSE OF MORB: INFLAMMATION OF SKIN (CELLULITIS). USUALLY

Animal Note: MATERIAL INTRODUCED DUE TO GAVAGE ERROR

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-11+12+13]			
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney	Pelvis	Inflammation	Chronic, Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 2-4]	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
		[Hyperplasia TGLS = 3-7]	
* Spleen		Histiocytic Sarcoma	
		Leukemia Mononuclear	
		[Histiocytic Sarcoma TGLS = 1-11]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 401

TRT#: 6

SEX: Female

DAY ON TEST: 404

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-12]		
* Mammary Gland	Fibroadenoma	
[Fibroadenoma TGLS = 1-11]		
* Pituitary Gland	Cyst	
* Uterus	Decidual Reaction	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORIBUND CONDITION: MAMMARY GLAND FIBROADENOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 402

TRT#: 6

SEX: Female

DAY ON TEST: 373

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver	Hepatodiaphragmatic Nodule
[Hepatodiaphragmatic Nodule TGLS = 1-11]	
* Pituitary Gland	Cyst

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 403

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-11+12+13]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-14]			
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 404

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 5 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9001064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Pituitary Gland	Pars Distalis	Angiectasis Cyst	Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 405

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
[Hyperplasia TGLS = 3-2]		Leukemia Mononuclear	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 406

TRT#: 6

SEX: Female

DAY ON TEST: 631

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
Eye	Antr Chamber	Inflammation	Moderate
[Inflammation TGLS = 1-11]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
Tooth	Gingiva	Squamous Cell Carcinoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 407

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-11]		
* Mammary Gland		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLS = 1-12]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 408

TRT#: 6

SEX: Female

DAY ON TEST: 622

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------|------------|--------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Pituitary Gland | | Cyst | |
| [Cyst TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 409

TRT#: 6

DOSE: 5 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 645

HISTO: 9001069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

OBSERVATIONS

Eye		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 15-16]		
* Kidney		Leukemia Mononuclear
* Liver		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 5,6-4]		
* Lung		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 1-2+3]		
Lymph Node	Deep Cervical	Leukemia Mononuclear
	Inguinal	Leukemia Mononuclear
	Mediastinal	Leukemia Mononuclear
	Pancreatic	Leukemia Mononuclear
	Renal	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 8,9,10,11,12,13,14-2+6+7+12+]		
[Leukemia Mononuclear TGLS = 8,9,10,11,12,13,14-2+6+7+12+]		
[Leukemia Mononuclear TGLS = 8,9,10,11,12,13,14-2+6+7+12+]		
[Leukemia Mononuclear TGLS = 8,9,10,11,12,13,14-2+6+7+12+]		
[Leukemia Mononuclear TGLS = 8,9,10,11,12,13,14-2+6+7+12+]		
* Lymph Node, Mandibular		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 8,9,10,11,12,13,14-2+6+7+12+]		
* Lymph Node, Mesenteric		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 8,9,10,11,12,13,14-2+6+7+12+]		
* Ovary		Cyst

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 409

TRT#: 6

SEX: Female

DAY ON TEST: 645

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001069

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 3-10]			
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-7]			
Spinal Cord		Leukemia Mononuclear	
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 16-11]			
[Leukemia Mononuclear TGLS = 2-11]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

Animal Note: TGL NOTE, CONTINUED: 13+14+15

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 410	TRT#: 6	SEX: Female	DAY ON TEST: 726
	DOSE: 5 MG/KG	DISP: Terminal Sacrifice	HISTO: 9001070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
[Cyst TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 411

TRT#: 6

SEX: Female

DAY ON TEST: 632

DOSE: 5 MG/KG

DISP: Moribund Sacrifice

HISTO: 9001071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Valve	Thrombosis	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gl			
Note: SEEN AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR PITUITARY FOCUS			
* Spleen		Fibrosis	Minimal
[Fibrosis TGLS = 5-11]			
[Leukemia Mononuclear TGLS = 3-11]			
Vagina	Epithelium	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 2-12]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA, MULTIPLE ORGANS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 555

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 413

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 414

TRT#: 6

SEX: Female

DAY ON TEST: 653

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: GROSS OBSERVATION OF MOTTLED LIVER SEEN AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-7]		
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 415

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 416

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR HEPATIC			
Note: FOCUS SEEN AT NECROPSY			
[Leukemia Mononuclear TGLS = 1-4]			
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 417

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 5 MG/KG

DISP: Terminal Sacrifice

HISTO: 9001077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
* Liver		Basophilic Focus	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 418	TRT#: 6 DOSE: 5 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO: 9001078
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-11]		
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 419	TRT#: 6	SEX: Female	DAY ON TEST: 457
	DOSE: 5 MG/KG	DISP: Scheduled Sacrifice	HISTO: 9001079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 420

TRT#: 6

SEX: Female

DAY ON TEST: 680

DOSE: 5 MG/KG

DISP: Natural Death

HISTO: 9001080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: MAMMARY GLAND FIBROADENOMA AND ADENOMA,

Animal Note: PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 590

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-12]		
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-11]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver	Basophilic Focus
* Pituitary Gland	Cyst

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 502

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-7]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 254

DOSE: 25 MG/KG

DISP: Dosing Accident

HISTO: 9000904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Esophagus			
Note: NO CORRESPONDING LESION FOR ESOPHAGEAL LACERATION			
* Heart	Myocardium	Degeneration	Minimal
* Kidney		Hydronephrosis	Minimal
* Lung			
Note: NO CORRESPONDING LESION SEEN FOR DIFFUSE/MOTTLED			
Note: APPEARANCE OF LUNG SEEN AT NECROPSY			
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: THIS ANIMAL APPEARS TO HAVE DIED DUE TO GAVAGE ERROR,
Animal Note: BASED ON FINDINGS AT NECROPSY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Colon	Parasite Metazoan	
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-11]		
* Pituitary Gland	Cyst	
[Cyst TGLS = 2-7]		
* Skin	Hyperkeratosis	Minimal
[Hyperkeratosis TGLS = 1-12]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 427

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|---------------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | | |
| * Pituitary Gland | | Cyst | |
| | Pars Distalis | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

Animal Note: STOMACH NODULE SEEN AT NECROPSY

Animal Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 336

DOSE: 25 MG/KG

DISP: Dosing Accident

HISTO: 9000909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | | | |

OBSERVATIONS

- | | | | |
|--|------------|--------------|------|
| * Esophagus | | | |
| Note: AT NECROPSY | | | |
| Note: NO CORRESPONDING LESION FOR ESOPHAGEAL RUPTURE NOTED | | | |
| * Heart | Myocardium | Degeneration | Mild |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ESOPHAGEAL RUPTURE, BASED ON GROSS

Animal Note: FINDINGS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 430	TRT#: 8	SEX: Female	DAY ON TEST: 647
	DOSE: 25 MG/KG	DISP: Natural Death	HISTO: 9000910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	--------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---|------------|----------------------------|------------------------------|
| * Adrenal Medulla | Bilateral | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 3,5-12+14] | | | |
| * Bone Marrow | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| * Heart | Myocardium | Degeneration | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLS = 1,2-11+15] | | | |
| * Spleen | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| [Pheochromocytoma Malignant TGLS = 4-13] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Bone Marrow

* Heart

* Intestine Small, Duodenum

* Kidney

* Mammary Gland

* Parathyroid Gland

* Stomach, Forestomach

* Trachea

* Adrenal Medulla

* Brain

* Intestine Large, Cecum

* Intestine Small, Ileum

* Lung

* Nose

* Salivary Glands

* Stomach, Glandular

* Urinary Bladder

* Blood Vessel

* Clitoral Gland

* Intestine Large, Colon

* Intestine Small, Jejunum

* Lymph Node, Mandibular

* Ovary

* Skin

* Thymus

* Uterus

* Bone

* Esophagus

* Intestine Large, Rectum

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Pancreas

* Spleen

* Thyroid Gland

OBSERVATIONS

* Liver

[Hepatodiaphragmatic Nodule TGLS = 1,2-11]

* Pituitary Gland

Hepatodiaphragmatic Nodule

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 607

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Moderate
* Heart	Atrium	Thrombosis	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen	Red Pulp	Atrophy	Marked
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 603

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-4]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 3-4]			
[Eosinophilic Focus TGLS = 3-4]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-11]			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 1-7]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11+12]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Liver		Eosinophilic Focus	
	[Eosinophilic Focus TGLS = 2-4]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-11,12]		
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------------|---------------|------------------|---------|
| * Clitoral Gland | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11+12] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-7] | | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Blood Vessel

OBSERVATIONS

- | | | | |
|--------------------------|------------|------------------|------------------|
| * Adrenal Cortex | | Adenoma | |
| * Heart | Myocardium | Degeneration | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | | Inflammation | Chronic, Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 1-11] | | | |
| * Pituitary Gland | | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Ovary		Cyst	
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 392

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORIBUND CONDITION: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 394

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Intestine Large, Colon	Parasite Metazoan
* Liver	Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 570

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ADENOMA, PARS DISTALIS, PITUITARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 190

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Uterus

Note: DISCOLORATION OF UTERUS SEEN AT NECROPSY

Note: NO CORRESPONDING MICROSCOPIC LESION FOUND FOR BLACK

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Pituitary Gland	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 576

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------------|------------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | Myocardium | Degeneration | Mild |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | | |
| * Pituitary Gland | | Cyst | |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORB: FIBROADENOMA, MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 332

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-11+12]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 346

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Pancreas	Acinus	Atrophy	Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 451

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Bone Marrow

* Heart

* Intestine Small, Duodenum

* Kidney

* Lymph Node, Mesenteric

* Pancreas

* Skin

* Thymus

* Adrenal Medulla

* Brain

* Intestine Large, Cecum

* Intestine Small, Ileum

* Liver

* Mammary Gland

* Parathyroid Gland

* Spleen

* Thyroid Gland

* Blood Vessel

* Clitoral Gland

* Intestine Large, Colon

* Intestine Small, Jejunum

* Lung

* Nose

* Pituitary Gland

* Stomach, Forestomach

* Trachea

* Bone

* Esophagus

* Intestine Large, Rectum

* Islets, Pancreatic

* Lymph Node, Mandibular

* Ovary

* Salivary Glands

* Stomach, Glandular

* Urinary Bladder

OBSERVATIONS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 453

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-13]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-11+12]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 454

TRT#: 8

SEX: Female

DAY ON TEST: 178

DOSE: 25 MG/KG

DISP: Dosing Accident

HISTO: 9000934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Colon	Parasite Metazoan
* Liver	Hepatodiaphragmatic Nodule
[Hepatodiaphragmatic Nodule TGLS = 2-4]	
* Stom Gland	
Note: GLANDULAR STOMACH PERFORATION SEEN AT NECROPSY	

PRIMARY CAUSE OF DEATH

-

Animal Note: HAS NO CORRESPONDING HISTOLOGICAL LESION

Animal Note: FINDING

Animal Note: CAUSE OF DEATH: STOMACH PERFORATION, ON THE BASIS OF GROSS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 455

TRT#: 8

SEX: Female

DAY ON TEST: 473

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Minimal
* Brain	Leukemia Mononuclear	
* Kidney	Leukemia Mononuclear	
* Liver	Leukemia Mononuclear	
* Lung	Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 3-12]	Leukemia Mononuclear	
* Ovary [Cyst TGLS = 2-10]	Cyst	
* Pituitary Gland	Cyst	
* Spleen [Leukemia Mononuclear TGLS = 1-11]	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: MONONUCLEAR CELL LEUKEMIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 456

TRT#: 8

SEX: Female

DAY ON TEST: 520

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
[Adenoma TGLS = 1-7]			
* Spleen	Lymph Follic	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	
Note: NODULE FOUND AT NECROPSY			
Note: NO CORRESPONDING LESION FOR LEFT LATERAL LIVER LOBE			
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 458

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	
* Pancreas	Acinus	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 459

TRT#: 8

SEX: Female

DAY ON TEST: 498

DOSE: 25 MG/KG

DISP: Dosing Accident

HISTO: 9000939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Esophagus			
Note: LACERATION SEEN AT NECROPSY			
Note: NO CORRESPONDING MICROSCOPIC LESION FOR ESOPHAGEAL			
* Heart	Myocardium	Degeneration	Minimal
* Pituitary GI			
Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR			
Note: PITUITARY FOCUS NOTED AT NECROPSY			
* Spleen	Lymph Follic	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: ESOPHAGEAL LACERATION, ON THE BASIS OF

Animal Note: GROSS LESION FOUND AT NECROPSY

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 460

TRT#: 8

SEX: Female

DAY ON TEST: 372

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	----------------------------

OBSERVATIONS

* Liver	Hepatodiaphragmatic Nodule
[Hepatodiaphragmatic Nodule TGLS = 1-11]	
* Pituitary Gland	Cyst

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 461

TRT#: 8

SEX: Female

DAY ON TEST: 58

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Small, Duodenum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

MISSING

* Intestine Large, Rectum

* Intestine Small, Ileum

* Parathyroid Gland

* Stomach, Forestomach

OBSERVATIONS

* Kidney

Hemorrhage

Mild

[Hemorrhage TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 462

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Colon		Parasite Metazoan	
* Liver		Basophilic Focus	
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
[Cyst TGLS = 2-7]			
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 485

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Pancreas	Duct	Concretion	Marked
[Concretion TGLS = 1-11]			
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|---------------------------------------|---------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear |
| * Liver | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 5-4] | | |
| * Lung | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 4-2+3] | | |
| * Mammary Gland | | Fibroadenoma |
| [Fibroadenoma TGLS = 2-12] | | |
| * Pituitary Gland | Pars Distalis | Adenoma |
| [Adenoma TGLS = 3-7] | | Cyst |
| * Spleen | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 1-11] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 465

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-4]		
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
		Cyst	
	Pars Distalis	Hyperplasia	Moderate
	[Angiectasis TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 468

TRT#: 8

SEX: Female

DAY ON TEST: 629

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Serosa	Fibrosis	Minimal

[Fibrosis TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 469

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Liver		Basophilic Focus	
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 470

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

OBSERVATIONS

* Liver

Basophilic Focus

Note: SEEN AT NECROPSY

Note: NO CORRESPONDING MICROSCOPIC LESION FOR LIVER DEFORMITY

* Pituitary Gland

Cyst

Pars Distalis

Hyperplasia

Mild

[Hyperplasia TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 471

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Fatty Change Hepatodiaphragmatic Nodule	Minimal
[Fatty Change TGLS = 3-13] [Hepatodiaphragmatic Nodule TGLS = 2-11]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pituitary Gland		Cyst	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 472

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-7]			
* Uterus		Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 332

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

OBSERVATIONS

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-4]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 474

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Bone Marrow

* Heart

* Intestine Small, Duodenum

* Lung

* Nose

* Salivary Glands

* Stomach, Glandular

* Urinary Bladder

* Adrenal Medulla

* Brain

* Intestine Large, Cecum

* Intestine Small, Ileum

* Lymph Node, Mandibular

* Ovary

* Skin

* Thymus

* Uterus

* Blood Vessel

* Clitoral Gland

* Intestine Large, Colon

* Intestine Small, Jejunum

* Lymph Node, Mesenteric

* Pancreas

* Spleen

* Thyroid Gland

* Bone

* Esophagus

* Intestine Large, Rectum

* Islets, Pancreatic

* Mammary Gland

* Parathyroid Gland

* Stomach, Forestomach

* Trachea

OBSERVATIONS

* Kidney

* Liver

Nephropathy

Basophilic Focus

Eosinophilic Focus

Minimal

Note: MEDIAN LOBE NODULE SEEN AT TRIM

Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR

* Pituitary Gland

Pars Distalis

Adenoma

Cyst

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 41

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 9000955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH: UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 9000957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Kidney | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|------------------------------|------------|------------------|---------------------|
| * Bone Marrow | | Inflammation | Granulomatous, Mild |
| * Heart | Myocardium | Degeneration | Minimal |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-11] | | | |
| * Pituitary Gland | | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 478

TRT#: 8

SEX: Female

DAY ON TEST: 391

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 9000958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|-------------------------------------|----------------------------------|----------|
| Skeletal Muscle | Rhabdomyosarcoma | |
| [Rhabdomyosarcoma TGLS = 1-11+12] | | |
| * Spleen | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Glandular | Ulcer | Moderate |

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORB: RHABDOMYOSARCOMA AND STOMACH ULCERS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/21/2014
Time Report Requested: 11:44:25
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 25 MG/KG

DISP: Scheduled Sacrifice

HISTO: 9000959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Myocardium	Degeneration	Minimal
* Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/21/2014

Time Report Requested: 11:44:25

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 480

TRT#: 8

SEX: Female

DAY ON TEST: 499

DOSE: 25 MG/KG

DISP: Dosing Accident

HISTO: 9000960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Esophagus			
Note: NO CORRESPONDING MICROSCOPIC LESION SEEN FOR			
Note: ESOPHAGEAL OBSTRUCTION NOTED AT TISSUE TRIM			
* Heart	Myocardium	Degeneration	Minimal
* Lung		Foreign Body	Marked
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MICROSCOPIC FINDING OF FOREIGN BODY IN PLEURAL CAVITY

Animal Note: CAUSE OF DEATH: ESOPHAGEAL RUPTURE, ON THE BASIS OF

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE