

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C03098C  
**Lock Date:** 05/13/1992  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 03/13/1995

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 221

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100001

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Moderate
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: associated with ulcer, multiple foci			
[ Hyperplasia TGLS = 2-4 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 222

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100002

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: multiple foci		
[ Hyperplasia TGLS = 1-4 ]		
Tooth	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 223

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100003

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 3-9+5 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver Note: irregular pattern attributed to artifact			
* Preputial Gland [ Ectasia TGLS = 1-7 ]	Duct	Ectasia	Marked
* Stomach, Forestomach Note: multiple foci, central abscess Note: only one smaller foci on slide 4, lesion on slide 8 [ Hyperplasia TGLS = 2-8 ]		Hyperplasia	Focal, Marked

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 224

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100004

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose	Respirat Epith	Inflammation	Chronic Active, Mild
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 2-4+8 ]			
* Testes	Interstit Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 225	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100005

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Mild
* Brain		
Note: brain is hypercellular		
* Kidney	Nephropathy	Minimal
* Preputial Gland	Duct Ectasia	Marked
[ Ectasia TGLS = 1-7 ]		

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 226

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100006

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Adenomatous, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci, abscessed core			
[ Hyperplasia TGLS = 2-4+9 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 227

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100007

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Epididymis Note: unilateral aspermia			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Preputial Gland [ Ectasia TGLS = 1-7 ]	Duct	Ectasia	Marked
* Stomach, Forestomach [ Hyperplasia TGLS = 2-4 ]		Hyperplasia	Focal, Mild
* Stomach, Glandular Note: glandular mucosa appears to have been jammed into the submucosa		Dysplasia	Mild
* Testes Note: unilateral aplasia [left] equals marked hypoplasia.		Hypoplasia	Marked
Tooth Note: chronic peridontitis noted			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 228

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100008

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

Harderian Gland [ Hyperplasia TGLS = 2-8 ]		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Preputial Gland [ Ectasia TGLS = 1-7 ]	Duct	Ectasia	Marked
* Stomach, Forestomach		Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 229

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100009

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Renal Tubule	Hyperplasia Nephropathy	Minimal Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci			
[ Hyperplasia TGLS = 2-4+8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 230

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100010

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Adrenal Cortex

Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.

Harderian Gland

Note: CYSTIC CHANGE

\* Kidney

Accessory Adrenal Cortical Nodule

Inflammation

Chronic Active, Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 231

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100011

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Adenomatous, Minimal
* Kidney		Hyperplasia	Mild
* Preputial Gland	Duct	Nephropathy	Minimal
		Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 2-4+8 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 232	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100012

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 3-9 ]		
Tongue	Mineralization	Mild
[ Mineralization TGLS = 1-8 ]		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 233	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100013

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Adenomatous, Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]			
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 2-7 ]			
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
Note: two foci			
[ Hyperplasia TGLS = 4-9 ]			

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: fibrosarcoma is on tail

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 234

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100014

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: abscessed core			
[ Hyperplasia TGLS = 2-4 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 235

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100015

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland	Inflammation	Chronic Active, Marked
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TWO "FOCAL" LESIONS

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 236

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100016

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Minimal
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: two foci			
[ Hyperplasia TGLS = 2-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 237

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100017

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* 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	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 238

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100018

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Intestine Large, Rectum	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 239	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100019

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Intestine Small, Jejunum [ Hyperplasia TGLS = 2-8 ]		Hyperplasia	Lymphoid, Marked
* Kidney		Nephropathy	Minimal
* Preputial Gland [ Ectasia TGLS = 1-7 ]	Duct	Ectasia	Marked
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 240

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100020

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 241

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100021

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Bronchiectasis	Focal, Mild
	Alveolar Epith	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 242

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100022

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Thyroid Gland

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Testes

**MISSING**

Harderian Gland

\* Mammary Gland

\* Thymus

**OBSERVATIONS**

\* Adrenal Cortex  
\* Kidney  
\* Stomach, Forestomach

Accessory Adrenal Cortical Nodule  
Nephropathy  
Hyperplasia

Mild  
Minimal  
Focal, Mild

Note: multiple foci, abscessed cores  
[ Hyperplasia TGLS = 1-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 243

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100023

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 244

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100024

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Cystic, Mild
Note: bile cysts associated with nodule			
[ Hepatocellular Adenoma TGLS = 2-8 ]			
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 245	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100025

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

Harderian Gland	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Testes	Atrophy	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 246

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100026

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

Harderian Gland

\* Mammary Gland

**OBSERVATIONS**

\* Adrenal Cortex  
\* Kidney

Capsule

Hyperplasia  
Nephropathy

Adenomatous, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 247

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100027

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland \* Mammary Gland

**OBSERVATIONS**

* Bone Marrow Note: MAST CELL INFILTRATE-MARROW OF SKULL SECTION	Hyperplasia	Mast Cell, Minimal
* Kidney Note: MAST CELL INFILTRATE	Hyperplasia Nephropathy	Mast Cell, Minimal Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 1-4+8 ]	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MAST CELL INFILTRATE  
Animal Note: MULTIPLE "FOCAL" LESIONS  
Animal Note: MICROABSCCESS ASS'D WITH LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 248

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100028

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 1-4 ]	Hyperplasia	Focal, Mild
* Thyroid Gland	Follicular Cel Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 249

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100029

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 250

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100030

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 251

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100031

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

Harderian Gland

\* Mammary Gland

**OBSERVATIONS**

\* Adrenal Cortex  
\* Kidney

Capsule

Hyperplasia  
Nephropathy

Adenomatous, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 252

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100032

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 253

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100033

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TWO FOCI NOTED

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 254

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100034

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian 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	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Clear Cell Focus	
* Preputial Gland	Inflammation	Chronic Active, Moderate
Tooth	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 255

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100035

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 256

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100036

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: multiple foci		
[ Hyperplasia TGLS = 1-4 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 257

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100037

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 1-4 ]			
* Testes	Interstitial Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 258

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100038

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 259

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100039

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 260	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100040

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 261

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100041

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Glandular  
\* Trachea

**MISSING**

Harderian Gland

\* Mammary Gland

**OBSERVATIONS**

\* Kidney  
\* Stomach, Forestomach

Nephropathy  
Hyperplasia

Minimal  
Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 262

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100042

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Adenomatous, Mild
* Kidney		Hyperplasia	Minimal
* Preputial Gland	Duct	Nephropathy	Minimal
[ Ectasia TGLS = 1-7 ]		Ectasia	Mild
* Spleen		Hemangiosarcoma	
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 263

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100043

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Necrosis	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: abscessed core			
[ Hyperplasia TGLS = 2-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 264

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100044

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* 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		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 265

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100045

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Intestine Small, Ileum	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: two foci		
[ Hyperplasia TGLS = 2-4 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 266	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100046

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: two foci, abscessed cores			
[ Hyperplasia TGLS = 2-8 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 267

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100047

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-4 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 268

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100048

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-8 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 2-9 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 269

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100049

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* 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	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Kidney Nephropathy Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 270	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100050

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 2-4 ]			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 271

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100051

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.		
* Heart	Inflammation	Chronic Active, Minimal
* Kidney	Nephropathy	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 272

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100052

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-1 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
[ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ]			
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 273

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100053

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
-----------------	-----------------

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Duct	Ectasia	Minimal
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-4+8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 274	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100054

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 1-8 ]			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 275

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100055

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 276

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100056

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-9 ]	Adenoma	
* Kidney	Nephropathy	Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 2-8 ]	Hepatocellular Carcinoma	
* Stomach, Forestomach [ Hyperplasia TGLS = 3-10 ]	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 277

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100057

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 278

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100058

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]			
* Preputial Gland	Duct	Ectasia	Minimal
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 3-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 279

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100059

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* 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	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 280

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 515

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Natural Death

**HISTO:** 9100060

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Gallbladder
* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland                      \* Mammary Gland

**OBSERVATIONS**

* Esophagus	Periesoph Tiss	Inflammation	Suppurative, Minimal
* Liver		Lymphoma Malignant Lymphocytic	
Lymph Node, Mediastinal		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-9 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 6-10 ]			
Mesentery		Fibrosis	Mild
[ Fibrosis TGLS = 4,5-10 ]			
* Pancreas		Lymphoma Malignant Lymphocytic	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant Lymphocytic	
Note: EMH CONTRIB TO TGL2			
[ Lymphoma Malignant Lymphocytic TGLS = 2-8 ]			
* Thymus		Lymphoma Malignant Lymphocytic	
Note: MALIG LYMPH IN THYMUS AND MEDIASTINAL LN CONTRIB TO TGL3			
[ Lymphoma Malignant Lymphocytic TGLS = 3-9 ]			

**PRIMARY CAUSE OF DEATH**                      - Lymph Node, Mesenteric    Lymphoma Malignant Lymphocytic

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 280

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 515

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Natural Death

**HISTO:** 9100060

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: "ADHESION" TO MESENT MASS CODED UNDER "MESENTERY, FIBROSIS"

Animal Note: DEATH DUE TO MALIG LYMPH

Animal Note: POSSIBLE ESOPH TRAUMA (GAVAGE TRAUMA)

Animal Note: SIGNIFICANT AUTOLYSIS OBSCURS FINE DETAILS

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 281

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100061

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adren Cortex			
Note: unilateral cortical cyst			
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]			
Lymph Node		Lymphoma Malignant Mixed	
Note: [ Lymph Mal Mixd ] TGLs = 4-9			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-8 ]			
* Preputial Gland	Duct	Ectasia	Moderate
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 6-4+11 ]			
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

-

Animal Note: renal lymph node = tgl 4-9

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:27  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 282

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1002

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100062

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland	* Skin	* Thymus
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**OBSERVATIONS**

* Liver [ Lymphoma Malignant Mixed TGLS = 2-8 ]	Lymphoma Malignant Mixed	
* Lymph Node, Mandibular Lymph Node, Mediastinal	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 1-4 ]	Lymphoma Malignant Mixed	
* Spleen [ Lymphoma Malignant Mixed TGLS = 3-1 ]	Lymphoma Malignant Mixed	
* Stomach, Forestomach	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: COD, malignant lymphoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05121-08  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/16/2014  
Time Report Requested: 06:24:27  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 283

TRT#: 4

SEX: Male

DAY ON TEST: 972

DOSE: 0 MG/KG 20%/36M

DISP: Natural Death

HISTO: 9100063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Harderian Gland	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Heart		Degeneration	Moderate
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
Note: ulcer noted			
[ Lymphoma Malignant Mixed TGLS = 3-8 ]			
* Kidney		Lymphoma Malignant Mixed	
* Liver		Lymphoma Malignant Mixed	
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-1 ]			

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: COD lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 284

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100064

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-8 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 285

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 762

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100065

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Liver		Hepatocellular Adenoma Hyperplasia	Lymphoid, Minimal
[ Hepatocellular Adenoma TGLS = 3-8 ]			
* Lymph Node, Mesenteric		Angiectasis	Mild
Note: pancreatic node counted as mesenteric node			
Note: includes thrombus			
* Pancreas	Artery	Inflammation	Chronic Active, Mild
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-2 ]			
* Spleen		Hematopoietic Cell Proliferation Thrombosis	Moderate Moderate
Note: fibromuscular reaction to disrupted vascular supply			
[ Hematopoietic Cell Proliferation TGLS = 2-1 ]			

**PRIMARY CAUSE OF DEATH** - Spleen Thrombosis

Animal Note: COD, arteritis and vascular thrombosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 286

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100066

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland	* Skin
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland	Duct	Ectasia	Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Marked

Note: multiple foci, abscessed cores

[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 287

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100067

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Islets, Pancreatic	Adenoma	
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-8 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: multiple foci		
[ Hyperplasia TGLS = 2-9 ]		
* Thymus		
Note: cyst noted		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 288

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1016

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100068

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland [ Carcinoma TGLS = 1-8 ]		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 2-9 ]		Hepatocellular Carcinoma	
* Lung		Carcinoma	Metastatic (Harderian Gland)
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
* Pancreas	Artery	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 3-4 ]		Hyperplasia	Focal, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

Animal Note: moribund condition due to liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 289

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100069

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Mesentery	Fat	Inflammation	Chronic Active, Marked
Note: all GI serosal surfaces involved [ Inflammation TGLS = 3,4-8 ]			
* Pancreas	Acinus	Atrophy	Moderate
* Preputial Gland	Duct	Ectasia	Moderate
		Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 2-1 ]			
* Testes		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 290

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100070

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Spleen		Hyperplasia	Lymphoid, Minimal
[ Hyperplasia TGLS = 2-1 ]			
* Thyroid Gland	Follicular Cel	Adenoma	

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 291

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1065

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100071

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Epididymis		Lymphoma Malignant Lymphocytic	
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant Lymphocytic	
[ Hepatocellular Adenoma TGLS = 2-2+8 ]			
* Lung		Lymphoma Malignant Lymphocytic	
* Lymph Node, Mandibular		Lymphoma Malignant Lymphocytic	
Lymph Node, Mediastinal		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-7 ]			
* Preputial Gland	Duct	Ectasia	Mild
* Prostate		Lymphoma Malignant Lymphocytic	
* Seminal Vesicle		Lymphoma Malignant Lymphocytic	
* Skin	Subcut Tiss	Lymphoma Malignant Lymphocytic	
* Spleen		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 1-1 ]			
* Thymus		Lymphoma Malignant Lymphocytic	

**PRIMARY CAUSE OF DEATH** - Spleen Lymphoma Malignant Lymphocytic

Animal Note: COD, lymphocytic leukemia. leukemia cells in all organs

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 292

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100072

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Liver	Hematopoietic Cell Proliferation	Minimal
* Lung	Lymphoma Malignant Lymphocytic	
* Lymph Node, Mandibular	Lymphoma Malignant Lymphocytic	
* Lymph Node, Mesenteric	Lymphoma Malignant Lymphocytic	

[ Lymphoma Malignant Lymphocytic TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 293	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1045
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100073

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Hematopoietic Cell Proliferation	Minimal
* Bone Marrow	Lymphoma Malignant Undifferentiated Cell Type	
Note: there is a marked infarction in the marrow		
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Lymphoma Malignant Undifferentiated Cell Type	
[ Lymphoma Malignant Undifferentiated Cell Type TGLS = 2-1+2; 7-10; 8-11 ]		
* Lung	Alveolar/Bronchiolar Adenoma	Multiple
[ Alveolar/Bronchiolar Adenoma TGLS = 9,10-2 ]		
Lymph Node	Lymphoma Malignant Undifferentiated Cell Type	
Note: [ Lymph Mal Undf ] TGLs = 5-8 renal, tgl 6-9 lumbar lymph nodes		
Lymph Node, Mediastinal	Lymphoma Malignant Undifferentiated Cell Type	
[ Lymphoma Malignant Undifferentiated Cell Type TGLS = 3-7 ]		
* Lymph Node, Mesenteric	Lymphoma Malignant Undifferentiated Cell Type	
[ Lymphoma Malignant Undifferentiated Cell Type TGLS = 4-4 ]		
* Pancreas	Lymphoma Malignant Undifferentiated Cell Type	
* Pituitary Gland	Pars Distalis	Cyst
* Spleen	Lymphoma Malignant Undifferentiated Cell Type	
[ Lymphoma Malignant Undifferentiated Cell Type TGLS = 1-1 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 293

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1045

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100073

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: two foci, abscessed cores

PRIMARY CAUSE OF DEATH

- Lymph Node, Mesenteric Lymphoma Malignant Undifferentiated Cell Type

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Animal Note: moribund condition due to lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 294

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100074

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* 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

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 295

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 620

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100075

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
* Thymus			

**OBSERVATIONS**

* Heart	Mineralization	Minimal
* Liver	Necrosis	Mild
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
* Spleen	Depletion Lymphoid	Marked
* Stomach, Forestomach	Hyperplasia	Focal, Marked
Note: numerous foci and hyperkeratosis run together		
Note: multiple foci, abscessed cores		
[ Hyperplasia TGLS = 2-4+8 ]		

**PRIMARY CAUSE OF DEATH** - Lung Alveolar/Bronchiolar Adenoma

Animal Note: DEATH DUE TO LUNG TUMOR

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 296

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100076

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Epididymis		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 7-6 ]			
* Kidney		Nephropathy	Minimal
Mesentery	Fat	Inflammation	Chronic Active, Moderate
	Fat	Necrosis	Marked
[ Inflammation TGLS = 5, 6-4+6+10 ]			
* Pancreas	Acinus	Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Preputial Gland	Duct	Ectasia	Marked
		Inflammation	Chronic Active, Moderate
[ Ectasia TGLS = 1-7 ]			
* Skin	Subcut Tiss	Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 2, 3-8+9 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-1 ]			

**PRIMARY CAUSE OF DEATH**

-

Animal Note: multiple foci of necrotic fat with chronic inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 297	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100077

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* 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
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Epididymis		Granuloma Sperm	Mild
* Intestine Small, Jejunum		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-9 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hemangiosarcoma	
[ Hepatocellular Adenoma TGLS = 1-8 ]		Hepatocellular Adenoma	
* Spleen		Hemangioma	
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: two foci			
[ Hyperplasia TGLS = 3-10 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 298

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1063

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100078

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Medulla	Hyperplasia	Mild
Ear	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-8 ]		
* Kidney	Nephropathy	Minimal
* Lymph Node, Mesenteric	Angiectasis	Marked
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
* Thymus	Atrophy	Marked

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

Animal Note: cause of moribund state not determined

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 299

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100079

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: abscessed core  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 300

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100080

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]			
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
[ Alveolar/Bronchiolar Adenoma TGLS = 3-2,2-9 ]			
* Skin	Subcut Tiss	Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100081

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
Harderian 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 2-8 ]			
* Lymph Node, Mesenteric		Angiectasis	Mild
[ Angiectasis TGLS = 3-4 ]			
* Pancreas	Duct	Ectasia	Moderate
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci			
[ Hyperplasia TGLS = 4-9 ]			
* Stomach, Glandular		Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-9 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 302

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 108

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100082

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

\* Lung

Note: NEMATODE(?) INTERPRETED TO BE INFUSION ARTIFACT

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: ONLY 1 ADRENAL PRESENT FOR EXAM

Animal Note: DEATH (THORACIC HEMOR) PRESUMED RELATED TO TRAUMA

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 303

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100083

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 3-8 ]			
[ Mixed Cell Focus TGLS = 4-9 ]			
* Preputial Gland	Duct	Ectasia	Moderate
[ Ectasia TGLS = 1-7 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-1 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100084

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
		Hyperplasia	Moderate
* Epididymis		Granuloma Sperm	Moderate
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]		
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
	[ Hyperplasia TGLS = 2-8 ]		
* Testes		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 305

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 941

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100085

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Lymph Node, Mandibular	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney Note: tgl 2, pale kidney not apparent on micro		Nephropathy	Minimal
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]		Alveolar/Bronchiolar Carcinoma	
Mesentery Fat		Necrosis	Mild
* Spleen		Depletion Lymphoid	Moderate
* Stomach, Forestomach [ Hyperplasia TGLS = 3-4 ]		Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

- Mesentery Fat Necrosis

Animal Note: COD, due to steatitis

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 306

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 859

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100086

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Hemangiosarcoma	Metastatic (Spleen)
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2,3-8 ]			

**PRIMARY CAUSE OF DEATH**

- Spleen Hemangiosarcoma

Animal Note: COD, hemangio sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100087

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 1-8 ]			
* Lung	Mediastinum	Lymphoma Malignant Lymphocytic	
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Chronic Active, Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 799

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100088

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adren Cortex			
Note: only one adrenal present on slide			
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Epididymis		Lymphoma Malignant Lymphocytic	
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Intestine Small, Jejunum		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 4-8 ]			
* Liver		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 5-1+9 ]			
Lymph Node	Renal	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 6-12 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-10 ]			
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 2-13 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Lymphoma Malignant Lymphocytic	

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Lymphocytic

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 799

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100088

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: moribund condition due to lymphoma

Animal Note: lumbar lymph node, inguinal node affected.

Animal Note: tgl 6-12, is for renal lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 898

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100089

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian 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, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Moderate
* Liver	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thymus	Atrophy	Marked
* Thyroid Gland	Follicular Cel Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

Animal Note: moribund condition due to liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 310	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100090

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Cyst	
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
Note: early carcinoma			
[ Hepatocellular Carcinoma TGLS = 2-8 ]			
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Thymus		Atrophy	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 311

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100091

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver			
Note: right ant. focus tgl-2, not apparent on slide			
* Preputial Gland	Duct	Ectasia Inflammation	Marked Chronic Active, Moderate
[ Ectasia TGLS = 1-7 ]			
* Testes		Atrophy	Moderate
* Thyroid Gland			
Note: follicular cyst noted			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 312

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 987

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100092

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Brain	Carcinoma	Metastatic (Lung)
* Heart	Carcinoma	Metastatic (Lung)
* Kidney	Carcinoma	Metastatic (Lung)
	Nephropathy	Mild
* Liver	Basophilic Focus	
	Hepatodiaphragmatic Nodule	Mild
	[ Basophilic Focus TGLS = 1-1 ]	
	[ Hepatodiaphragmatic Nodule TGLS = 3-8 ]	
* Lung	Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]	
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Atrophy	Marked

**PRIMARY CAUSE OF DEATH** - Lung Alveolar/Bronchiolar Carcinoma

Animal Note: moribund condition due to lung tumor

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 313

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 936

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100093

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 1-9 ]		
	[ Hepatocellular Carcinoma TGLS = 2-2+8 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	Alveolar Epith	Hyperplasia	Mild
* Preputial Gland	Duct	Ectasia	Minimal
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

Animal Note: death due to liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 314

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1019

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100094

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Histiocytic Sarcoma	
* Kidney		Nephropathy	Minimal
Note: anemia presumable made kidneys pale, tgl 2			
Note: eosin crystals in epithelial cells typically seen in Histiosarcoma			
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 7-1+2 ]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma Hyperplasia	Mild
Note: tgl 4-2, lung lesion not apparent on slide			
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2 ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 1-8 ]			
* Skin			
Note: edema noted grossly, not remarkable on micro			
* Spleen		Hematopoietic Cell Proliferation Histiocytic Sarcoma	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-1 ]			
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 314

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1019

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100094

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Spleen Histiocytic Sarcoma

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Animal Note: histiosarcoma cells in all vessels

Animal Note: COD, histiosarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 315

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 784

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100095

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* 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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Intestine Small, Jejunum		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-9 ]			
* Kidney		Lymphoma Malignant Lymphocytic	
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 4-8 ]			
Lymph Node		Hepatocellular Carcinoma	Metastatic (Liver)
		Lymphoma Malignant Lymphocytic	
Note: [ Lymph Mal Lymph ] TGLs = 2-8			
Lymph Node, Mediastinal		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 1-7 ]			
Mesentery		Lymphoma Malignant Lymphocytic	
* Pancreas		Lymphoma Malignant Lymphocytic	
* Skin	Subcut Tiss	Lymphoma Malignant Lymphocytic	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Lymphocytic	

**PRIMARY CAUSE OF DEATH**                      - Lymph Node    Lymphoma Malignant Lymphocytic

Animal Note: pancreatic node, tgl 2-8

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 315

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 784

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100095

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: COD, lymphoma

Animal Note: pancreatic node also has metastatic hepatocellular carcinoma

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**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 316

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1050

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100096

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Hemorrhage	Mild
		Hyperplasia	Minimal
Eye	Lens	Cataract	Minimal
[ Cataract TGLS = 2-9 ]			
* Islets Panc			
Note: paucity of islets			
* Kidney		Nephropathy	Minimal
* Lung		Inflammation	Minimal
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-8 ]			
* Testes		Atrophy	Mild
* Thyroid Gl			
Note: follicular cyst noted			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: moribund sac, clinical signs. cause of paresis not found, may have been diabeti c.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 317

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 974

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100097

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Blood Vessel Note: possible aortic thrombus			
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Intestine Small, Jejunum [ Lymphoma Malignant Mixed TGLS = 4-9 ]		Lymphoma Malignant Mixed	
* Kidney [ Lymphoma Malignant Mixed TGLS = 6-1 ]		Lymphoma Malignant Mixed	
* Liver [ Hepatocellular Adenoma TGLS = 2-8 ]		Hepatocellular Adenoma Lymphoma Malignant Mixed	
* Lung Lymph Node, Mediastinal		Alveolar/Bronchiolar Adenoma Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 5-9 ]		Lymphoma Malignant Mixed	
* Preputial Gland [ Ectasia TGLS = 1-7 ]	Duct	Ectasia	Marked
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-1 ]		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 317	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 974
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100097

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Atrophy	Mild
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PRIMARY CAUSE OF DEATH	- Lymph Node, Mesenteric	Lymphoma Malignant Mixed
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Animal Note: moribund condition due to lymphoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 318	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100098

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Mild
Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-10 ]			
* Kidney		Necrosis	Focal, Mild
		Nephropathy	Minimal
Note: possible infarct			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-9 ]			
[ Hyperplasia TGLS = 3-2 ]			
Lymph Node, Mediastinal		Carcinoma	Metastatic (Lung)
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 4-11 ]			
* Testes		Atrophy	Mild
* Thymus		Atrophy	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 319

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100099

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Cyst	Mild
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]			
* Preputial Gland	Duct	Ectasia	Moderate
		Inflammation	Chronic Active, Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 3-8 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 320	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 866
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100100

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Gallbladder	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Thymus	Atrophy	Moderate

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**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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Animal Note: moribund sac due to clinical signs, cause of circling not found

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 321

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100101

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Epididymis	Granuloma Sperm	Mild
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 322

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100102

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Prostate		Adenoma	
* Testes		Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 323

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100103

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Cyst	
		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland	Duct	Ectasia	Marked
		Inflammation	Chronic Active, Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
* Thymus		Atrophy	Marked
* Thyroid Gland		Inflammation	Minimal
[ Inflammation TGLS = 2-2 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 324	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1016
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100104

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-1+2+8 ]			
* Lymph Node, Mesenteric		Angiectasis	Moderate
* Preputial Gland	Duct	Ectasia	Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Carcinoma	
[ Carcinoma TGLS = 2-4 ]			

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**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

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Animal Note: moribund sac due to histiocytic sarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 325

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1020

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100105

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Angiectasis	Mild
Mesentery	Fat	Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 2-9 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes		Atrophy	Mild

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

Animal Note: moribund condition due to liver tumor

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 326

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100106

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Minimal
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 2-8 ]			
* Testes		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 327

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100107

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Intestine Small, Jejunum		Hemangiosarcoma Inflammation	Chronic Active, Marked
[ Hemangiosarcoma TGLS = 2-8 ]			
[ Inflammation TGLS = 2-8 ]			
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Bronchiole	Hyperplasia	Mild
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 3-4 ]			
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 328

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100108

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

Note: hyperplastic nodule embedded with parathyroid gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 329

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100109

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Testes
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Adrenal Medulla	Hyperplasia	Marked
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores		
* Stomach, Glandular	Dysplasia	Mild
* Thymus	Atrophy	Mild
* Thyroid Gland	Follicular Cel Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 330

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100110

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hyperplasia	Lymphoid, Mild
* Preputial Gland	Duct	Ectasia	Minimal
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Marked
		Squamous Cell Papilloma	

Note: multiple foci, abscessed core

[ Hyperplasia TGLS = 2-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 331

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100221

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: multiple foci  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 332

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100222

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 2-8 ]		
* Thyroid Gland	Follicular Cel	Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 333

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100223

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adren Cortex			
Note: only one adrenal on slide			
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 334

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100224

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
	Squamous Cell Papilloma	

[ Hyperplasia TGLS = 2-8 ]

[ Squamous Cell Papilloma TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 335

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100225

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Intestine Large, Rectum	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: two foci  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 336

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100226

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 337

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100227

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 338

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100228

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 1-7 ]			
* Thymus			
Note: minimal thymus on slide			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 339

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100229

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]		Hyperplasia	Focal, Mild
* Thyroid Gland	Follicular Cel	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

Animal Note: ONLY 1 ADRENAL PRESENT FOR EXAM

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 340

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100230

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 341

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100231

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Nose	* Pancreas	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Adrenal Medulla	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Duct	Ectasia	Moderate
[ Ectasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 342

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100232

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 343

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100233

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 344

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100234

**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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Gallbladder	Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Glandular	Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH** -

Animal Note: APPARENT DOWNGROWTH OF GLANDS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:28

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 345

TRT#: 7

SEX: Male

DAY ON TEST: 722

DOSE: 25 MG/KG104/WEEK

DISP: Terminal Sacrifice

HISTO: 9100235

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

- \* Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

**MISSING**

Harderian Gland

\* Mammary Gland

**OBSERVATIONS**

- \* Kidney
- \* Lung

Nephropathy  
Alveolar/Bronchiolar Adenoma

Minimal

[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 346

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100236

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Moderate

Note: multiple foci with abscessed centers  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 347	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> 25 MG/KG104/WEEK	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 9100237

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 348	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 25 MG/KG104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100238

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 349

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100239

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Moderate
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**PRIMARY CAUSE OF DEATH**

-

Animal Note: HYPERPLASIA OFTEN ASS'D WITH INFLAM/ULCERS

Animal Note: MULTIPLE FOCI OF HYPERPLASTIC MUCOSA

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:28

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 350

TRT#: 7

SEX: Male

DAY ON TEST: 722

DOSE: 25 MG/KG104/WEEK

DISP: Terminal Sacrifice

HISTO: 9100240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Blood Vessel              | * Bone                   | * Bone Marrow              |
| * Brain                   | * Epididymis                | * Esophagus              | * Gallbladder              |
| Harderian Gland           | * 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  | * Nose                      | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- |                 |                     |                   |
|-----------------|---------------------|-------------------|
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
|-----------------|---------------------|-------------------|

OBSERVATIONS

- |                  |        |             |         |
|------------------|--------|-------------|---------|
| * Adrenal Cortex |        | Hyperplasia | Minimal |
| * Kidney         |        | Nephropathy | Minimal |
| * Pancreas       | Acinus | Atrophy     | Minimal |
| * Stom Forestom  |        |             |         |

Note: tgl 1 nodule not in plane of section

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 351

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100241

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Trachea

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Urinary Bladder

**MISSING**

Harderian Gland

\* Mammary Gland

\* Thymus

**OBSERVATIONS**

\* Adrenal Cortex  
\* Kidney

Hyperplasia  
Nephropathy

Minimal  
Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 352

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100242

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Necrosis	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 353

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100243

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: slight inflammation and hyperplasia of limiting ridge noted

[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 354

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100244

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Prostate  
\* Spleen  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

Harderian Gland

\* Mammary Gland

\* Pituitary Gland

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 355

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100245

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

Harderian Gland	Inflammation	Chronic Active, Marked
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 356

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100246

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 357

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100247

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Parathyroid Gland Note: cyst noted		
* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 1,2-8 ]	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 358

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100248

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
-----------------	-----------------

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: two foci  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 359

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100249

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
-----------------	-----------------

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 1,2-8+9 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland	Duct	Ectasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 360

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100250

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 361

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100251

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: multiple foci		
[ Hyperplasia TGLS = 1-4+8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 362

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100252

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 363

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100253

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Preputial GI Note: only one preputial on slide; within normal limits for aged mouse		
* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 2-4+8 ]	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 364

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100254

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Intestine Small, Jejunum	Hyperplasia	Lymphoid, Mild
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 365	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 25 MG/KG104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100255

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-8 ]		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 366

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100256

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland	* Preputial Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 367

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100257

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TWO "FOCAL" LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 368

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100258

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* 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, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Intestine Small, Duodenum	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: multiple foci  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 369

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100259

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Brain		Infiltration Cellular	Lymphocyte, Mild
* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Minimal
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci			
[ Hyperplasia TGLS = 2-4+8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 370

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100260

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach Note: two foci [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
* Stomach, Glandular Note: glandular elements found beneath m. mucosa, presumed due to trauma by gavage tip	Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 371

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100261

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 372	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 722
	<b>DOSE:</b> 25 MG/KG104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100262

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Moderate

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 373

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100263

**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, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Gallbladder	Harderian Gland	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland			

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 374

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100264

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Prostate  
\* Spleen  
\* Thyroid Gland

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
\* Skin  
\* Testes

**MISSING**

Harderian Gland

\* Mammary Gland

\* Pituitary Gland

\* Thymus

**OBSERVATIONS**

\* Adrenal Cortex  
\* Kidney

Hyperplasia  
Nephropathy

Minimal  
Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 375

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 63

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Natural Death

**HISTO:** 9100265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* 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
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

* Intestine Large, Cecum	* Mammary Gland	* Parathyroid Gland	* Thymus
* Urinary Bladder			

**OBSERVATIONS**

* Spleen	Depletion Lymphoid	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: CAUSE OF DEATH UNDETERMINED

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 376

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100266

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Prostate  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Trachea

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Seminal Vesicle  
\* Testes  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Skin  
\* Thymus

**MISSING**

Harderian Gland

\* Mammary Gland

\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Preputial Gland  
\* Stomach, Forestomach

Duct

Nephropathy  
Ectasia  
Hyperplasia

Minimal  
Mild  
Focal, Mild

Note: multiple foci

[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 377

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100267

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* 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		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 378

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100268

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland Note: CYSTIC CHANGE	Inflammation	Chronic Active, Minimal
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: ONLY 1 OF TWO GROSSLY OBSERVED FOCI ON SLIDE

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 379

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100269

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Minimal
Note: not significantly different from usual appearance [ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci [ Hyperplasia TGLS = 2,3,4-8+9 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 380

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100270

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Glandular  
\* Trachea

**MISSING**

Harderian Gland

\* Mammary Gland

**OBSERVATIONS**

\* Kidney  
\* Stomach, Forestomach

Nephropathy  
Hyperplasia

Minimal  
Focal, Mild

Note: multiple foci  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 381

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100271

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* 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		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 382

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100272

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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, Mesenteric	* 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		

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 383

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100273

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* 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	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 384

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100274

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland                      \* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Marked
		Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 385

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 502

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Natural Death

**HISTO:** 9100275

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland                      \* Mammary Gland

**OBSERVATIONS**

* Heart	Lymphoma Malignant Lymphocytic
* Kidney	Lymphoma Malignant Lymphocytic
* Liver	Lymphoma Malignant Lymphocytic
* Lung	Lymphoma Malignant Lymphocytic
* Spleen	Lymphoma Malignant Lymphocytic
Note: SOME LYMPH DEPLETION AND EMH NOTED	
* Stomach, Forestomach	Hyperplasia
Note: multiple foci, abscessed cores	
[ Hyperplasia TGLS = 2-8 ]	
* Thymus	Lymphoma Malignant Lymphocytic
[ Lymphoma Malignant Lymphocytic TGLS = 1-9 ]	

**PRIMARY CAUSE OF DEATH**                      - Spleen    Lymphoma Malignant Lymphocytic

Animal Note: COD, lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 386

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100276

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Marked
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

Note: microabscess under mucosa

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 387

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100277

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
* Preputial Gland	Duct	Ectasia	Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 388

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100278

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Pituitary Gland	Cyst
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 389

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100279

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Thymus

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thyroid Gland

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Glandular  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Testes  
\* Urinary Bladder

**MISSING**

Harderian Gland

\* Islets, Pancreatic

\* Mammary Gland

**OBSERVATIONS**

\* Kidney  
\* Stomach, Forestomach  
[ Hyperplasia TGLS = 1,2,3-8+9 ]

Nephropathy  
Hyperplasia

Minimal  
Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 390

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100280

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 391

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100281

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Parathyroid Gland	Cyst	
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: multiple foci, abscessed cores

[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 392

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1036

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100282

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Lymphoma Malignant Lymphocytic	
* Kidney		Nephropathy	Minimal
* Liver		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 7-13,8-14 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node		Lymphoma Malignant Lymphocytic	
Note: [ Lymph Mal Lymph ] TGLs = 2-8,pancreatic 3-9,renal 4-10,lumbar nodes			
* Lymph Node, Mandibular		Lymphoma Malignant Lymphocytic	
Lymph Node, Mediastinal		Lymphoma Malignant Lymphocytic	
* Preputial Gland	Duct	Ectasia	Moderate
[ Ectasia TGLS = 6-12 ]			
* Prostate		Lymphoma Malignant Lymphocytic	
* Seminal Vesicle		Lymphoma Malignant Lymphocytic	
Skeletal Muscle		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 5-11 ]			
* Spleen		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 1-1 ]			

**PRIMARY CAUSE OF DEATH** - Spleen Lymphoma Malignant Lymphocytic

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 392

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1036

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100282

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: COD, lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 393

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100283

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow	Lymphoma Malignant Mixed	
* Intestine Small, Jejunum	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 5-9 ]		
* Kidney	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-1 ]	Nephropathy	Minimal
* Liver	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-1+2+10 ]		
Lymph Node	Pancreatic	Lymphoma Malignant Mixed
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed
[ Lymphoma Malignant Mixed TGLS = 2-8 ]		
* Pancreas	Lymphoma Malignant Mixed	
* Spleen	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-9 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: two foci, one with abscessed core		
[ Hyperplasia TGLS = 6-11 ]		

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 393

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100283

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 394	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 214
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9100284

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

Harderian Gland	* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Heart	Mineralization	Minimal
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**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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Animal Note: CAUSE OF POSS MALNOURISHMENT NOT FOUND

Animal Note: CAUSE OF DEATH UNDETERMINED

Animal Note: HEART MINERALIZATION HAS BEEN REPORTED IN MALNOURISHED MICE

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 395

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100285

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
* Testes	Atrophy	Minimal
* Thymus	Atrophy	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 396

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100286

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci [ Hyperplasia TGLS = 1-8 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 397

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 953

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100287

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Intestine Small, Jejunum [ Hyperplasia TGLS = 3-8 ]		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 2-9 ]		Hepatocellular Carcinoma	
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric [ Angiectasis TGLS = 4-4 ]		Angiectasis	Marked
* Preputial Gland [ Ectasia TGLS = 1-7 ]	Duct	Ectasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach Note: abscessed core [ Hyperplasia TGLS = 5-10 ]		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

Animal Note: moribund condition due to liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 398

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 784

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100288

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	Eye
* Gallbladder	* 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	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
Note: tgl 3 apparently cut away [ Hepatocellular Carcinoma TGLS = 2-1 ]		
* Spleen		
Note: deformity in spleen noted, tgl 1-1		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: abscessed core		

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

Animal Note: moribund condition due to liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 399	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100289

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Minimal
* Gallbladder		Inflammation	Acute, Mild
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Angiectasis	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Duct	Ectasia	Moderate
* Testes		Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 400

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100290

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* 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	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
Eye	Lens	Cataract	Minimal
[ Cataract TGLS = 1-8 ]			
Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-8 ]			
* Intestine Small, Duodenum		Carcinoma	
[ Carcinoma TGLS = 4-4 ]			
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-1 ]			
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:28

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 401

TRT#: 8

SEX: Male

DAY ON TEST: 1086

DOSE: 25 MG/KG20%/36M

DISP: Terminal Sacrifice

HISTO: 9100291

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Medulla	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 1-4 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 402

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100292

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland	* Thymus
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**OBSERVATIONS**

* Adren Cortex Note: only one adrenal on slide			
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Moderate
* Liver [ Hepatocellular Adenoma TGLS = 2-8 ]		Hepatocellular Adenoma	
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 4-2 ]		Alveolar/Bronchiolar Adenoma	
* Preputial Gland Note: fatty replacement [ Degeneration TGLS = 5-7 ]		Degeneration	Moderate
* Spleen [ Hyperplasia TGLS = 1-1 ]		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 6-4+9 ]		Hyperplasia	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 403      **TRT#:** 8      **SEX:** Male      **DAY ON TEST:** 1086  
**DOSE:** 25 MG/KG20%/36M      **DISP:** Terminal Sacrifice      **HISTO:** 9100293

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 3-8 ]		Adenoma	
* Int Sm Duoden Note: No remarkable lesion (04).			
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Preputial Gland [ Ectasia TGLS = 1-7 ]	Duct	Ectasia	Moderate
* Spleen [ Hemangiosarcoma TGLS = 2-1 ]		Hemangiosarcoma	
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 4-9 ]		Hyperplasia	Focal, Mild
Tooth		Dysplasia	Moderate

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 404

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100294

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Liver [ Hepatocellular Adenoma TGLS = 1-8 ]		Hepatocellular Adenoma	
Mesentery	Artery	Inflammation	Chronic Active, Mild
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 2-9 ]		Hyperplasia	Focal, Moderate
* Thyroid Gland Note: artery is involved		Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/16/2014  
Time Report Requested: 06:24:28  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 405

TRT#: 8

SEX: Male

DAY ON TEST: 933

DOSE: 25 MG/KG20%/36M

DISP: Natural Death

HISTO: 9100295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	Harderian Gland
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Marked
* Heart	Atrium	Thrombosis	Moderate
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild

Note: two foci, abscessed cores

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Heart Atrium Thrombosis

Animal Note: COD, liver carcinoma and atrial thrombosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 406	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100296

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular [ Lymphoma Malignant Lymphocytic TGLS = 1-3+7 ]	Lymphoma Malignant Lymphocytic	
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 2-8 ]	Hyperplasia	Focal, Minimal
* Thymus	Lymphoma Malignant Lymphocytic	
Tooth	Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 407

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 931

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100297

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland \* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
* Heart	Valve	Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Angiectasis	Moderate
		Lymphoma Malignant Mixed	
	[ Angiectasis TGLS = 1-4 ]		
	[ Lymphoma Malignant Mixed TGLS = 1-4 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Mild
	Note: multiple foci, abscessed cores		
	[ Hyperplasia TGLS = 2-8 ]		

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: COD, lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 408	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 819
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100298

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Mild
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2,3-2 ]		
* Preputial Gland	Duct	Ectasia	Minimal
	[ Ectasia TGLS = 1-8 ]		

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**PRIMARY CAUSE OF DEATH** - Lung Alveolar/Bronchiolar Carcinoma

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Animal Note: moribund condition due to lung tumors

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 409

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100299

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lymph Node, Mesenteric	Angiectasis	Mild
* Preputial Gland	Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 410

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100300

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Intestine Small, Jejunum [ Hyperplasia TGLS = 4-4 ]		Hyperplasia	Lymphoid, Marked
* Kidney		Nephropathy	Minimal
* Liver [ Cyst TGLS = 2-10 ] [ Hepatocellular Adenoma TGLS = 1-2+8 ]	Bile Duct	Cyst Hepatocellular Adenoma	
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 3-9 ]		Alveolar/Bronchiolar Carcinoma	
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 5-11 ]		Hyperplasia	Focal, Marked
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 411

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100301

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
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**OBSERVATIONS**

* Epididymis	Lymphoma Malignant Lymphocytic	
* Kidney	Nephropathy	Moderate
* Liver	Hepatocellular Adenoma	Multiple
	Lymphoma Malignant Lymphocytic	
[ Hepatocellular Adenoma TGLS = 1-9 ]		
[ Lymphoma Malignant Lymphocytic TGLS = 6-1 ]		
* Lung	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 5-2 ]		
* Lymph Node, Mandibular	Lymphoma Malignant Lymphocytic	
Lymph Node, Mediastinal	Lymphoma Malignant Lymphocytic	
* Lymph Node, Mesenteric	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-4 ]		
* Prostate	Lymphoma Malignant Lymphocytic	
* Seminal Vesicle	Lymphoma Malignant Lymphocytic	
* Spleen	Hematopoietic Cell Proliferation	Mild
	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 2-1 ]		
* Thymus	Atrophy	Marked
Tissue NOS	Sarcoma	
[ Sarcoma TGLS = 4-8 ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 411

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100301

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 412	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100302

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Marked
[ Hyperplasia TGLS = 3-9 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-8 ]			
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: abscessed core			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 413

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100303

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Hepatocellular Adenoma	
[ Basophilic Focus TGLS = 2-1 ]		
[ Hepatocellular Adenoma TGLS = 1-8 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
	Squamous Cell Papilloma	
Note: multiple foci, abscessed cores		
[ Hyperplasia TGLS = 3-9 ]		
[ Squamous Cell Papilloma TGLS = 3-9 ]		
Tooth	Dysplasia	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 414

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100304

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Adenoma	
Eye	Lens	Cataract	Minimal
[ Cataract TGLS = 1-8 ]			
Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-8 ]			
* Kidney		Nephropathy	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 415

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100305

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Intestine Large, Colon	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
		Hyperplasia	Minimal
* Epididymis		Spermatocele	
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[ Alveolar/Bronchiolar Adenoma TGLS = 1-2+8 ]		
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
Note: abscessed core			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 416

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100306

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Angiectasis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 1-8 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 417

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100307

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-8 ]		Adenoma	
* Intestine Small, Jejunum [ Carcinoma TGLS = 2-9 ] [ Hyperplasia TGLS = 3-4 ]		Carcinoma Hyperplasia	Lymphoid, Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach [ Hyperplasia TGLS = 4-10 ]		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 418

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100308

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
	Hyperplasia	Mast Cell, Minimal

Note: multiple foci, abscessed cores  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 419

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100309

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	Tongue	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis	Granuloma Sperm	Minimal
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: abscessed core [ Hyperplasia TGLS = 2-9 ]		
* Testes	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 420

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 898

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100310

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland \* Mammary Gland

**OBSERVATIONS**

* Bone Marrow Note: extensive histio sarc. in skull, maxilla	Histiocytic Sarcoma	
* Epididymis [ Histiocytic Sarcoma TGLS = 1-6+8 ]	Histiocytic Sarcoma	
* Kidney	Cyst	
	Nephropathy	Minimal
* Liver [ Histiocytic Sarcoma TGLS = 2-1+2+9 ]	Histiocytic Sarcoma	
* Preputial Gland	Inflammation	Chronic Active, Marked
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach [ Cyst TGLS = 3-10 ]	Cyst	
* Testes	Histiocytic Sarcoma	

**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

Animal Note: moibund condition due to histiocytic sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 421

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 924

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100311

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Esophagus Note: esophagus is dilated, packed with food			
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]		Alveolar/Bronchiolar Carcinoma	
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

- Lung Alveolar/Bronchiolar Carcinoma

Animal Note: COD, lung tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 422

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 964

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100312

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Bone Marrow Note: both femur and skull affected	Lymphoma Malignant Lymphocytic
* Epididymis	Lymphoma Malignant Lymphocytic
* Kidney	Lymphoma Malignant Lymphocytic
* Liver	Lymphoma Malignant Lymphocytic
Lymph Node Note: [ Lymph Mal Lymph ] TGLs = 3-8, lumbar. tgl 4-9, inguinal	Lymphoma Malignant Lymphocytic
* Lymph Node, Mandibular	Lymphoma Malignant Lymphocytic
* Lymph Node, Mesenteric [ Lymphoma Malignant Lymphocytic TGLS = 2-10 ]	Lymphoma Malignant Lymphocytic
* Prostate	Lymphoma Malignant Lymphocytic
* Seminal Vesicle	Lymphoma Malignant Lymphocytic
* Spleen [ Lymphoma Malignant Lymphocytic TGLS = 1-1 ]	Lymphoma Malignant Lymphocytic

**PRIMARY CAUSE OF DEATH**                      - Lymph Node, Mesenteric    Lymphoma Malignant Lymphocytic

Animal Note: COD, lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 423

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100313

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Epididymis		Granuloma Sperm	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Plasma Cell, Mild
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Chronic Active, Moderate
[ Ectasia TGLS = 1-7 ]			
* Spleen		Hyperplasia	Plasma Cell, Mild
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
		Hyperplasia	Mast Cell, Mild
[ Hyperplasia TGLS = 2-8 ]			
* Stomach, Glandular		Dysplasia	Mild
* Testes		Atrophy	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 424	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100314

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Epididymis		Granuloma Sperm	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	
[ Cyst TGLS = 1-1+8 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
[ Hyperplasia TGLS = 2-4 ]			
* Preputial Gland	Duct	Ectasia	Marked
[ Ectasia TGLS = 3-7 ]			
* Testes		Atrophy	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 425

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100315

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland \* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores		
[ Hyperplasia TGLS = 2-9 ]		
* Testes	Atrophy	Mild
* Thymus	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 426

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 957

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100316

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Intestine Small, Ileum	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]			
* Preputial Gland	Duct	Ectasia	Marked
* Spleen		Depletion Lymphoid	Mild
[ Depletion Lymphoid TGLS = 2-1 ]			
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH** - Lung Alveolar/Bronchiolar Carcinoma

Animal Note: COD, lung tumor

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 427

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100317

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

* Mammary Gland	* Urinary Bladder
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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	Multiple
	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2,2.1 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Marked
	Hyperplasia	Mast Cell, Mild

Note: multiple foci, abscessed cores

Note: foci diffuse in squamous stomach; no lesions noted in glandular area

[ Hyperplasia TGLS = 2-4+8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 428	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100318

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
Harderian 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-8 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]		
* Preputial Gland	Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 1-7 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 429	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100319

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Intestine Small, Ileum		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 5-9 ]			
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-10 ]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Lymphoma Malignant Mixed	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Lymphoma Malignant Mixed	
[ Hyperplasia TGLS = 2-2 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 6-8 ]			
* Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-9 ]			
* Stomach, Forestomach		Cyst	
[ Cyst TGLS = 7-10 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 429

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100319

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: lymphoma infiltrates in multiple misc. tissues

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 430	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100320

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

Harderian Gland	* Intestine Small, Jejunum	* Mammary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:28

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 431

TRT#: 8

SEX: Male

DAY ON TEST: 880

DOSE: 25 MG/KG20%/36M

DISP: Natural Death

HISTO: 9100321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Harderian Gland	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
Note: infarction leading to impaction			
[ Lymphoma Malignant Mixed TGLS = 2-8 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-4 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 3-4 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: COD, intestinal infarction presumed related to the lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 432	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 1086
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100322

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

Harderian Gland	* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Marked
	[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
* Stomach, Glandular		Dysplasia	Mild
* Testes		Atrophy	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:28

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Male

DAY ON TEST: 1086

DOSE: 25 MG/KG20%/36M

DISP: Terminal Sacrifice

HISTO: 9100323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant Mixed TGLS = 1-8 ]	Lymphoma Malignant Mixed	
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed	
* Stomach, Glandular	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: apparent early lymphoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 434

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100324

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Lymphoma Malignant Mixed	
* Epididymis		Lymphoma Malignant Mixed	
* Kidney		Lymphoma Malignant Mixed	
		Nephropathy	Minimal
* Liver		Lymphoma Malignant Mixed	
* Lung		Lymphoma Malignant Mixed	
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Chronic Active, Marked
	[ Ectasia TGLS = 1-7 ]		
* Salivary Glands		Lymphoma Malignant Mixed	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
	[ Lymphoma Malignant Mixed TGLS = 2-1 ]		
Tooth		Dysplasia	Moderate
* Urinary Bladder		Lymphoma Malignant Mixed	

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 434

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100324

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: lymphoma infiltrates in most tissues

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 435

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100325

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* 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**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Islets, Pancreatic		Adenoma	
* Liver		Eosinophilic Focus	
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	Alveolar Epith	Hyperplasia	Mild
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-8,2-9 ]		
* Pituitary Gland	Pars Distalis	Adenoma	

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 436

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100326

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 1-9 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ]		
Lymph Node		Lymphoma Malignant Mixed	
	Note: [ Lymph Mal Mixd ] TGLs = 2-8, renal node		
* Preputial Gland	Duct	Ectasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Mild
	Note: multiple foci, abscessed cores		
	[ Hyperplasia TGLS = 4-10 ]		
Tooth		Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

-

Animal Note: apparent early lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 437

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100327

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Chronic Active, Mild
[ Ectasia TGLS = 1-7 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 2-8 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 438

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 892

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100328

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Gallbladder			
Note: dilatation due to liver tumor			
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-4 ]			
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Moderate
[ Adenoma TGLS = 2-8 ]			
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 6-9,7-10,8-11 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-4 ]			
* Preputial Gland	Duct	Ectasia	Moderate
[ Ectasia TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: two foci			
[ Hyperplasia TGLS = 9-12 ]			
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 438

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 892

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100328

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: moribund condition due to liver tumor

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 439

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100329

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-8 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
Note: abscessed core		
[ Hyperplasia TGLS = 2-9 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 440

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 1086

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100330

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Liver	Carcinoma	Metastatic (Stomach, Glandular)
[ Carcinoma TGLS = 2-1+9 ]		
* Lymph Node, Mesenteric	Carcinoma	Metastatic (Stomach, Glandular)
[ Carcinoma TGLS = 3-8 ]		
* Preputial Gland	Duct	Ectasia
[ Ectasia TGLS = 1-7 ]		Mild
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores		
[ Hyperplasia TGLS = 4-10 ]		
* Stomach, Glandular	Carcinoma	
[ Carcinoma TGLS = 5-10 ]		

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100111

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100112

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 1,2-8 ]		

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100113

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Clitoral GI		
Note: tgl 1, dilated duct filled with keratin debris		
* Kidney	Nephropathy	Minimal
* Ovary	Cyst	
[ Cyst TGLS = 3-6 ]		
* Uterus	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-8 ]		

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100114

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Uterus	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100115

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hyperplasia	Lymphoid, Minimal
* Pituitary Gland	Pars Intermed	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100116

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
* Ovary	Cyst	
Note: one cyst blood/clot filled [ Cyst TGLS = 1,2-6 ]		
* Uterus	Hyperplasia	Cystic, Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100117

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Bone Marrow	Myelofibrosis	Mild
* Kidney	Nephropathy	Minimal
* Parathyroid GI		
Note: focus of ectopic thymus		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 1-8 ]		
* Uterus	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100118

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-8 ]		
* Lung	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed	
* Ovary	Lymphoma Malignant Mixed	
* Spleen	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-1 ]		
* Thymus	Lymphoma Malignant Mixed	

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 9100119

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Parathyroid Gland
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100120

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Thyroid Gland	Inflammation	Chronic Active, Minimal
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:28

First Dose M/F: NA / NA

Lab: BAT

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100121

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spleen
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus

- \* Blood Vessel
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Thymus

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skin
- \* Trachea

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

Harderian Gland

[ Adenoma TGLS = 1-8 ]

Adenoma

\* Liver

[ Mixed Cell Focus TGLS = 2-1 ]

Mixed Cell Focus

\* Stomach, Forestomach

[ Hyperplasia TGLS = 3-9 ]

Hyperplasia

Focal, Mild

\* Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 12

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100122

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

\* Stomach, Forestomach

Hyperplasia

Focal, Mild

Note: multiple foci

[ Hyperplasia TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:28  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 13	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100123

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver	Serosa	Pigmentation	Hemosiderin, Minimal
Note: adjacent to gallbladder			
* Ovary		Cyst	
[ Cyst TGLS = 1-6 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 2-8 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 9100124

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 15

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100125

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Clitoral Gland	Harderian Gland
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**OBSERVATIONS**

* Ovary		Cyst	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Stom Forestom			

Note: no antemortem rupture found microscopically

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100126

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Thyroid Gland [ Adenoma TGLS = 1-2 ]	Follicular Cel	Adenoma	

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 17

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100127

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Ovary	Cyst	
* Pancreas		
Note: ECTOPIC SPLEEN NOTED		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100128

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Thymus
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**OBSERVATIONS**

* Ovary	Cyst	Mild
* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
* Uterus Note: suppurative exudate present		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100129

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 20

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100130

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 2-8 ]	Hepatocellular Adenoma	
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 3,4-2 ]	Alveolar/Bronchiolar Carcinoma	Multiple
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Moderate
* Ovary [ Cyst TGLS = 1-6 ]	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 562

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Moribund Sacrifice

**HISTO:** 9100131

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland                      \* Pituitary Gland

**OBSERVATIONS**

* Mammary Gland [ Carcinoma TGLS = [ CARCINOMA ] TGLs = 1-8 ]	Carcinoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = [ HEMA CELL PROL ] TGLs = 2-9 ]	Hematopoietic Cell Proliferation	Marked

**PRIMARY CAUSE OF DEATH**                      - Mammary Gland    Carcinoma

Animal Note: MORIBUND COND DUE TO MAMMARY TUMOR

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:29

First Dose M/F: NA / NA

Lab: BAT

**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100132

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

- |                 |                          |
|-----------------|--------------------------|
| Harderian Gland | * Lymph Node, Mesenteric |
|-----------------|--------------------------|

**OBSERVATIONS**

- |                            |                              |                |
|----------------------------|------------------------------|----------------|
| * Kidney                   | Nephropathy                  | Minimal        |
| * Lung                     | Alveolar/Bronchiolar Adenoma |                |
| * Stomach, Forestomach     | Hyperplasia                  | Focal, Minimal |
| [ Hyperplasia TGLS = 1-8 ] |                              |                |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100133

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Spleen	Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci; abscessed cores. [ Hyperplasia TGLS = 1-8 ]		
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 24

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100134

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100135

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

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Animal Note: HYPERPLASIA ASS'D WITH MICROABSCCESS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100136

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Scopolamine hydrobromide trihydrate

**CAS Number:** 6533-68-2

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 06:24:29

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 27

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100137

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland	* Intestine Small, Ileum
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**OBSERVATIONS**

* Adrenal Cortex	Hypertrophy	Moderate
* Adrenal Medulla	Pheochromocytoma Benign	
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Moderate

Note: multiple foci; abscessed cores

[ Hyperplasia TGLS = 1-4+8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100138

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-8 ]	Adenoma	
* Kidney	Nephropathy	Minimal
* Ovary Note: only one ovary on slide		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100139

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* 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**

* Intestine Small, Ileum	* Lymph Node, Mesenteric
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**OBSERVATIONS**

* Adren Cortex	
Note: only one adrenal found at trim	
Harderian Gland	Adenoma
* Liver	Mixed Cell Focus
[ Mixed Cell Focus TGLS = 1-1 ]	

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100140

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Mild
* Bone Marrow	Myelofibrosis	Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 31	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 492
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100141

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

Harderian Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow	Histiocytic Sarcoma	
* Kidney	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 3-1 ]		
* Liver	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-1+2 ]		
* Lung	Histiocytic Sarcoma	
Lymph Node, Mediastinal	Histiocytic Sarcoma	
* Lymph Node, Mesenteric	Histiocytic Sarcoma	
Mesentery	Histiocytic Sarcoma	
* Ovary	Histiocytic Sarcoma	
* Spleen	Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-8 ]		
* Uterus	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-6+9 ]		

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**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Histiocytic Sarcoma

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Animal Note: MORIBUND COND DUE TO HISTIO SARC

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100142

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

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**OBSERVATIONS**

* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: abscessed core; no focus on slide 8 [ Hyperplasia TGLS = 1-4 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 33

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100143

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-1 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: numerous foci; some with abscessed cores.		
[ Hyperplasia TGLS = 2-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 34

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100144

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	Mesentery
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Thymus

**OBSERVATIONS**

Lymph Node, Mediastinal [ Lymphoma Malignant Mixed TGLS = 1-8 ]	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 2-9 ]	Lymphoma Malignant Mixed	
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100145

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

\* Thymus

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**OBSERVATIONS**

* Liver	Angiectasis	Mild
[ Angiectasis TGLS = 1-8 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 36

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100146

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Ovary	Cyst	
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci [ Hyperplasia TGLS = 1-4+8 ]		
* Uterus		
Note: suppurative exudate noted		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100147

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Heart	Mineralization	Minimal
* Ovary		
Note: perovarian fat mineralization/ inflammation		
* Uterus	Hyperplasia	Cystic, Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 38

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100148

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	

**MISSING**

* Adrenal Cortex	* Adrenal Medulla	Harderian Gland
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**OBSERVATIONS**

* Ovary	Cyst
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[ Cyst TGLS = 1-6 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 39

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100149

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* 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	

**MISSING**

Harderian Gland	* Intestine Small, Ileum
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	

[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 40

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100150

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci [ Hyperplasia TGLS = 1-4 ]		
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 41

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100151

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:29

First Dose M/F: NA / NA

Lab: BAT

**ANIMAL ID:** 42

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100152

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * Esophagus              |
| * Gallbladder              | Harderian Gland           | * 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          | Skeletal Muscle           | * Skin                      | * Spleen                 |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

**MISSING**

- \* Pituitary Gland

**OBSERVATIONS**

- |                        |             |                |
|------------------------|-------------|----------------|
| * Stomach, Forestomach | Hyperplasia | Focal, Minimal |
|------------------------|-------------|----------------|

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100153

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 1-4 ]			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Scopolamine hydrobromide trihydrate

**CAS Number:** 6533-68-2

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 06:24:29

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100154

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Salivary Glands	Skeletal Muscle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

* Lymph Node, Mesenteric	* Parathyroid Gland
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**OBSERVATIONS**

* Pituitary Gland	Pars Intermed	Adenoma
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Scopolamine hydrobromide trihydrate

**CAS Number:** 6533-68-2

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 06:24:29

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 45

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100155

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Parathyroid Gland  
\* Spleen  
\* Trachea

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Pituitary Gland  
\* Stomach, Glandular  
\* Urinary Bladder

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Salivary Glands  
\* Thymus  
\* Uterus

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Pancreas  
\* Skin  
\* Thyroid Gland

**MISSING**

Harderian Gland

**OBSERVATIONS**

\* Liver  
[ Hepatocellular Adenoma TGLS = 1-8 ]  
\* Ovary  
\* Stomach, Forestomach  
[ Infiltration Cellular TGLS = 2-9 ]

Hepatocellular Adenoma

Cyst  
Infiltration Cellular

Mast Cell, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100156

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
* Stomach, Forestomach	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 47	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 456
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 9100157

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

Harderian Gland	* Lymph Node, Mesenteric
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**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 48

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 628

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Natural Death

**HISTO:** 9100158

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Brain			
Note: granulomatous response to focus of cholesterol clefts			
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1,3-2 ]		
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-8 ]		
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)

**PRIMARY CAUSE OF DEATH**

- Lung Alveolar/Bronchiolar Carcinoma

Animal Note: COD lung tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100159

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci [ Hyperplasia TGLS = 1-8 ]			
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Scopolamine hydrobromide trihydrate

**CAS Number:** 6533-68-2

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 06:24:29

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 50

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100160

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Lymph Node, Mesenteric
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**OBSERVATIONS**

* Heart		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 51

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100161

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 52	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100162

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Ovary	Atrophy	Mild
	Cyst	
[ Atrophy TGLS = 2-6 ]		
[ Cyst TGLS = 1-6 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 3-8 ]		
* Uterus	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 53

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100163

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Heart		Mineralization	Minimal
* Kidney	Renal Tubule	Necrosis	Moderate
Note: pigment probably hemoglobin, noted			
* Liver	Centrilobular	Necrosis	Moderate
[ Necrosis TGLS = 3-1+2 ]			
* Ovary		Hemorrhage	Marked
[ Hemorrhage TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-1 ]			
* Stomach, Forestomach		Erosion	Minimal
		Hyperplasia	Focal, Minimal
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 54

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100164

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland	* Pituitary Gland
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**OBSERVATIONS**

* Ovary	Cyst
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[ Cyst TGLS = 1-6 ]

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100165

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
* Lung	Alveolar/Bronchiolar Adenoma Infiltration Cellular	Histiocyte, Marked
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ] [ Infiltration Cellular TGLS = 2-2 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 3-8 ]		
* Uterus	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 56	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100166

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

Harderian Gland	* Pituitary Gland
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**OBSERVATIONS**

* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: multiple foci		
[ Hyperplasia TGLS = 2-8 ]		
* Uterus	Hyperplasia	Cystic, Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 57	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 723
	<b>DOSE:</b> 0 MG/KG 104/WEEK	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100167

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**OBSERVATIONS**

* Adren Cortex Note: only one adrenal on slide			
* Stomach, Forestomach Note: abscessed core [ Hyperplasia TGLS = 1-8 ]		Hyperplasia	Focal, Mild
* Uterus		Hyperplasia Inflammation	Cystic, Mild Suppurative, Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 58

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100168

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Gallbladder
* 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			

**MISSING**

* Esophagus	Harderian Gland
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 59

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100169

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Ovary [ Cyst TGLS = 1-6 ]	Cyst	
* Stomach, Forestomach Note: two foci noted [ Hyperplasia TGLS = 2-8 ]	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 60

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG 104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100170

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Clitoral Gland Note: pigmented debris in dilated ducts			
* Ovary Note: suppurative exudate noted		Cyst	
* Stomach, Forestomach [ Hyperplasia TGLS = 2-8 ]		Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100171

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-8 ]			
* Ovary		Cyst	
* Pituitary Gland	Pars Intermed	Adenoma	
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-9 ]			
* Uterus		Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100172

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**OBSERVATIONS**

* Adrenal Cortex	Hyperplasia	Minimal
* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Nephropathy	Minimal
Tooth	Dysplasia	Marked
* Uterus	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 63

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1050

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100173

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Intestine Large, Cecum	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex	Angiectasis	Mild
* Kidney	Lymphoma Malignant Lymphocytic	
* Liver	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 5-1+2 ]		
* Lung	Lymphoma Malignant Lymphocytic	
Lymph Node	Lymphoma Malignant Lymphocytic	
Note: [ Lymph Mal Lymp ] TGLs = 6-9,renal, 7-10, lumbar		
Lymph Node, Mediastinal	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 2-7 ]		
* Lymph Node, Mesenteric	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-8 ]		
* Mammary GI		
Note: mammary with clitoral gland		
* Ovary	Cyst	
[ Cyst TGLS = 4-6 ]	Lymphoma Malignant Lymphocytic	
* Pituitary Gland	Adenoma	
[ Adenoma TGLS = 8-7 ]		
* Spleen	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 1-1 ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 63	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1050
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100173

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Forestomach

Cyst

Hyperplasia

Focal, Moderate

Note: two foci, one abscessed core

[ Cyst TGLS = 9-11 ]

\* Thymus

Lymphoma Malignant Lymphocytic

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**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Lymphocytic

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Animal Note: moribund condition due to lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 64	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 856
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9100174

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Thymus
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**OBSERVATIONS**

* Blood Vessel	Aorta	Thrombosis	Marked
* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Ovary		Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 2-6 ]			
* Skin	Subcut Tiss	Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 3-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 1-1 ]			

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**PRIMARY CAUSE OF DEATH** - Ovary Inflammation

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Animal Note: bacterial emboli and PMNs in most tissues

Animal Note: aortic thrombosis due to septicemia of ovarian abscess

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 65

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100175

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Kidney [ Lymphoma Malignant Mixed TGLS = 2,3-1+10 ]	Lymphoma Malignant Mixed	
* Liver [ Lymphoma Malignant Mixed TGLS = 8-1+2+13 ]	Hepatocellular Adenoma Lymphoma Malignant Mixed	
Lymph Node Note: [ Lymph Mal Mixd ] TGLs = lumbar,tgl 5-11 renal, tgl7-12	Lymphoma Malignant Mixed	
* Lymph Node, Mandibular [ Mast Cell Tumor Nos TGLS = 6-3 ]	Mast Cell Tumor Nos	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 4-9 ]	Lymphoma Malignant Mixed	
* Nose Note: may be mast cell tumor	Infiltration Cellular	Mast Cell, Marked
* Spleen [ Lymphoma Malignant Mixed TGLS = 1-8 ]	Lymphoma Malignant Mixed	
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
* Uterus [ Hemorrhage TGLS = 9-6 ]	Hemorrhage	Marked

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 65

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100175

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: lumbar, equivocal involvement

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 66

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100176

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant Mixed TGLS = 2-10 ]	Lymphoma Malignant Mixed	
* Kidney	Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 4-9 ]	Hepatocellular Adenoma	
* Lymph Node, Mandibular	Lymphoma Malignant Mixed	
Lymph Node, Mediastinal	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 3-8 ]	Lymphoma Malignant Mixed	
* Mammary Gland	Lymphoma Malignant Mixed	
* Pituitary Gland Pars Distalis	Adenoma	
* Spleen [ Lymphoma Malignant Mixed TGLS = 1-1 ]	Lymphoma Malignant Mixed	
* Stomach, Forestomach Note: focus has abscessed core	Hyperplasia	Focal, Mild
* Thymus	Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 67

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 946

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100177

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Brain			
Note: compression noted			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 1-3+7 ]			
* Pituitary Gland	Pars Intermed	Adenoma	
[ Adenoma TGLS = 3-7 ]			
* Spleen		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 2-1 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: two foci			
[ Hyperplasia TGLS = 4-4 ]			

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Intermed Adenoma

Animal Note: moribund condition due to pituitary tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100178

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 69	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100179

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	
Note: blood/ clot filled [ Cyst TGLS = 1-6 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 2-8 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 70

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1085

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100180

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**MISSING**

* Intestine Large, Colon	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pituitary Gland	* Salivary Glands	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Bone Marrow		Lymphoma Malignant Mixed	
* Clitoral Gland		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 5-7 ]			
Eye	Lens	Cataract	Minimal
[ Cataract TGLS = 11-11 ]			
* Kidney		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-1,4-1 ]			
* Liver		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-1+2+8 ]			
* Lung		Lymphoma Malignant Mixed	
Lymph Node		Lymphoma Malignant Mixed	
Note: [ Lymph Mal Mixd ] TGLs = 9-9,renal tgl10-10,inguinal			
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 7-7 ]			
* Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-1 ]			
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH** - Spleen Lymphoma Malignant Mixed

Animal Note: moribund condition due to lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 70

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1085

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100180

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: some tissues lost during spill incident while transferring tissues from necropsy to trim area

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 71

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 555

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100181

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland \* Thymus

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Liver		Necrosis	Minimal
* Ovary		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Polyp Stromal	

Note: POLYP IN AREA OF CYSTIC HYPERPLASIA, INFLAMMATION, NECROSIS

Note: POLYP TORSION, HEMORRHAGE RESULTING IN MORIBUND COND

[ Polyp Stromal TGLS = [ POLYP STROMAL ] TGLs = 1-6 ]

**PRIMARY CAUSE OF DEATH** - Uterus Polyp Stromal

Animal Note: MORIBUND COND DUE TO UTERINE POLYP TORSION

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 72

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100182

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone Marrow		Lymphoma Malignant Lymphocytic	
		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Lymphoma Malignant Lymphocytic	
* Lung		Lymphoma Malignant Lymphocytic	
Lymph Node, Mediastinal		Lymphoma Malignant Lymphocytic	
Mesentery		Lymphoma Malignant Lymphocytic	
* Ovary		Cyst	
[ Cyst TGLS = 1-6 ]			
* Spleen		Lymphoma Malignant Lymphocytic	
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: abscessed core			
Tooth		Dysplasia	Marked
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 73

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 911

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100183

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Thymus

**OBSERVATIONS**

* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Adenoma TGLS = 4-1,2 ]		
	[ Hepatocellular Carcinoma TGLS = 4-8 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLS = 3-2 ]		
Lymph Node		Hepatocellular Carcinoma	Metastatic (Liver)
	Note: [ Hepatoclr Carc ] TGLs = 2-1, renal node		
* Lymph Node, Mesenteric		Angiectasis	Minimal
* Mammary GI			
	Note: mammary from around clitoral glands		
* Ovary			
	Note: only one ovary in plane of section		
* Pancreas	Artery	Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-1 ]		
* Stomach, Forestomach		Hyperplasia	Focal, Mild
	Note: multiple foci, abscessed cores		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 73

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 911

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100183

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 5-9 ]

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**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

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Animal Note: COD, hepatocellular carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 921
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9100184

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

Harderian Gland	* Lymph Node, Mesenteric
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**OBSERVATIONS**

* Clitoral Gland	Duct	Ectasia	Minimal
[ Ectasia TGLS = 1-7 ]			
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 4-1+2 ]			
* Lung		Histiocytic Sarcoma	
Lymph Node		Histiocytic Sarcoma	
Note: [ Histo Sarc ] TGLs = 3-8, lumbar node			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Moderate
* Uterus		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-6 ]			

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**PRIMARY CAUSE OF DEATH** - Uterus Histiocytic Sarcoma

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Animal Note: COD, histiocytic sarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/16/2014  
Time Report Requested: 06:24:29  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 75      TRT#: 2      SEX: Female      DAY ON TEST: 898  
DOSE: 0 MG/KG 20%/36M      DISP: Natural Death      HISTO: 9100185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

Harderian Gland

OBSERVATIONS

* Bone Marrow		Angiectasis Hemangiosarcoma Adenoma	Marked
* Islets, Pancreatic			
* Liver			
Note: liver foci not found at trim or on micro, may have been congested blood vessels			
* Lymph Node, Mesenteric		Angiectasis	Mild
* Pancreas	Acinus	Atrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

Animal Note: COD, islet cell tumor

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 76

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100186

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Bone Marrow		Lymphoma Malignant Lymphocytic	
* Brain		Lymphoma Malignant Lymphocytic	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant Lymphocytic	
[ Hepatocellular Adenoma TGLS = 8-9 ]			
[ Lymphoma Malignant Lymphocytic TGLS = 7,9-1+2+13 ]			
Lymph Node		Lymphoma Malignant Lymphocytic	
Note: [ Lymph Mal Lymph ] TGLs = 3-10, axillary node 4-11, renal node 6-12,lumbar			
* Lymph Node, Mandibular		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 1-3+7 ]			
Lymph Node, Mediastinal		Lymphoma Malignant Lymphocytic	
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 5-8 ]			
* Ovary		Cyst	
* Spleen		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 2-1 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 846
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9100187

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Nose	* Pancreas	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

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**MISSING**

Harderian Gland	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
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**OBSERVATIONS**

* Adren Cortex Note: only one adrenal on slide		
* Bone Marrow		Histiocytic Sarcoma
* Intestine Small, Jejunum [ Histiocytic Sarcoma TGLS = 11-4 ]		Histiocytic Sarcoma
* Kidney [ Histiocytic Sarcoma TGLS = 3-1,4-12 ]		Histiocytic Sarcoma
* Liver [ Histiocytic Sarcoma TGLS = 2-1+2 ]		Histiocytic Sarcoma
* Lung Note: nodule not apparent tgl 13		
Lymph Node Note: [ Histo Sarc ] TGLs = 7-4,8-10,10-8, pancreatic, renal, inguinal		Histiocytic Sarcoma
* Lymph Node, Mandibular [ Histiocytic Sarcoma TGLS = 5-3+7 ]		Histiocytic Sarcoma
Lymph Node, Mediastinal [ Histiocytic Sarcoma TGLS = 6-7 ]		Histiocytic Sarcoma
* Lymph Node, Mesenteric Note: only one node chain on slide 4 [ Histiocytic Sarcoma TGLS = 9-4 ]		Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 846
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9100187

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary	Histiocytic Sarcoma	
* Spleen	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-11 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
Note: multiple foci		
[ Hyperplasia TGLS = 12-9 ]		
* Thymus	Histiocytic Sarcoma	

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**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Histiocytic Sarcoma

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Animal Note: COD, histiocytic sarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 78

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 927

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100188

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Thymus
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**OBSERVATIONS**

* Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
* Clitoral GI			
Note: clitoral glands normal, tgl 5			
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
		[ Eosinophilic Focus TGLS = 4-8 ]	
		[ Hepatocellular Carcinoma TGLS = 3-9 ]	
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		[ Hepatocellular Carcinoma TGLS = 2-2 ]	
* Ovary			
Note: one ovary out of plane			
* Pancreas	Artery	Inflammation	Chronic Active, Marked
Note: thrombus noted			
* Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

Animal Note: death due to liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100189

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Lymph Node, Mesenteric

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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Ovary	Corpus Luteum	Hyperplasia	Moderate
Note: diffuse luteal cell hyperplasia			
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: abscessed core			
* Uterus		Histiocytic Sarcoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 80

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 860

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100190

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Liver	Inflammation	Focal, Mild
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]	Alveolar/Bronchiolar Carcinoma	
* Stomach, Forestomach [ Hyperplasia TGLS = 2-8 ]	Hyperplasia	Focal, Minimal
* Thymus	Atrophy	Marked

**PRIMARY CAUSE OF DEATH** - Lung Alveolar/Bronchiolar Carcinoma

Animal Note: moribund condition due to lung tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 81

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100191

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia Myelofibrosis	Moderate Minimal
* Clitoral Gland	Duct	Ectasia	Mild
[ Ectasia TGLS = 3-7 ]			
* Islets, Pancreatic		Carcinoma	
[ Carcinoma TGLS = 2-4 ]			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-9 ]			
* Ovary		Cyst Cystadenoma	
Note: adenoma left, cyst right			
[ Cystadenoma TGLS = 1-8 ]			
* Pancreas	Acinus Duct	Atrophy Ectasia	Marked Marked
[ Ectasia TGLS = 2-4 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Thrombosis	Marked
[ Thrombosis TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 81

**TRT#:** 2  
**DOSE:** 0 MG/KG 20%/36M

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 1087  
**HISTO:** 9100191

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 82

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1007

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100192

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex	Lymphoma Malignant Lymphocytic
* Kidney	Lymphoma Malignant Lymphocytic
[ Lymphoma Malignant Lymphocytic TGLS = 6-11 ]	
* Liver	Hepatocellular Adenoma
	Lymphoma Malignant Lymphocytic
[ Lymphoma Malignant Lymphocytic TGLS = 5-8 ]	
* Lung	Alveolar/Bronchiolar Carcinoma
Note: smaller nodule seen grossly may have been island of carcinoma, or lymphoma, but not seen on slide or recut,	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]	
Lymph Node	Lymphoma Malignant Lymphocytic
Note: [ Lymph Mal Lymph ] TGLs = 7-9 lumbar	
* Lymph Node, Mandibular	Lymphoma Malignant Lymphocytic
Lymph Node, Mediastinal	Lymphoma Malignant Lymphocytic
[ Lymphoma Malignant Lymphocytic TGLS = 4-7 ]	
* Lymph Node, Mesenteric	Lymphoma Malignant Lymphocytic
[ Lymphoma Malignant Lymphocytic TGLS = 8-10 ]	
* Ovary	Lymphoma Malignant Lymphocytic
* Spleen	Lymphoma Malignant Lymphocytic
[ Lymphoma Malignant Lymphocytic TGLS = 1-1 ]	
* Thymus	Lymphoma Malignant Lymphocytic

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Lymphocytic

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 82

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1007

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100192

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: moribund condition due to lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 83

**TRT#:** 2  
**DOSE:** 0 MG/KG 20%/36M

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 974  
**HISTO:** 9100193

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland	* Lymph Node, Mesenteric	* Thymus
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**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-8 ]			
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLS = 3-9 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 1-1 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Adenoma  
**CONTRIBUTORY CAUSE OF DEATH** - Skin Subcut Tiss Fibrosarcoma

Animal Note: moribund condition due to liver and skin tumors

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/16/2014  
Time Report Requested: 06:24:29  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 84 TRT#: 2 SEX: Female DAY ON TEST: 1087  
DOSE: 0 MG/KG 20%/36M DISP: Terminal Sacrifice HISTO: 9100194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

MISSING

Harderian Gland \* Thymus

OBSERVATIONS

* Brain		Lymphoma Malignant Lymphocytic	
* Kidney		Lymphoma Malignant Lymphocytic	
Lymph Node		Lymphoma Malignant Lymphocytic	
Note: [ Lymph Mal Lymph ] TGLs = 2-8 renal, 3-9 lumbar, pancreatic no tgl			
* Ovary		Cyst	
		Lymphoma Malignant Lymphocytic	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-7 ]			
* Salivary Glands		Lymphoma Malignant Lymphocytic	
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-1 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 5-4+10 ]			
* Urinary Bladder		Lymphoma Malignant Lymphocytic	

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 85

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 859

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100195

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant Mixed TGLS = 4-8 ]		Lymphoma Malignant Mixed	
* Lymph Node, Mandibular [ Lymphoma Malignant Mixed TGLS = 1-7 ]		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 3-9 ]		Lymphoma Malignant Mixed	
* Spleen [ Lymphoma Malignant Mixed TGLS = 2-1 ]		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Inflammation	Chronic Active, Moderate

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: moribund condition due to lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100196

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-8 ]		
* Ovary		Cyst	
* Pancreas	Acinus	Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 87

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100197

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland	* Pituitary Gland
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**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-8 ]		
* Lung	Infiltration Cellular	Lymphocyte, Mild
* Ovary	Angiectasis	Marked
	Granulosa Cell Tumor Benign	
Note: right ovary hemangio. left ovary granulosa cell		
[ Angiectasis TGLS = 1-6 ]		
* Thymus	Atrophy	Mild
* Thyroid Gland	Follicular Cel Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 88

**TRT#:** 2  
**DOSE:** 0 MG/KG 20%/36M

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 967  
**HISTO:** 9100198

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pituitary Gland
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**OBSERVATIONS**

* Blood Vessel	Aorta	Inflammation	Marked
	Aorta	Thrombosis	Marked
* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
		Myelofibrosis	Mild
* Ovary		Inflammation	Chronic Active, Marked
	[ Inflammation TGLS = 2-6 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-1 ]		
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH** - Blood Vessel Aorta Thrombosis

Animal Note: COD, aortic thrombosis due to ovarian abscess and septicemia

Animal Note: PMN's due to septicemia in many organs

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 89

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1020

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100199

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Liver	* 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**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Brain			
Note: compression noted			
* Islets, Pancreatic		Carcinoma	
[ Carcinoma TGLS = 1-8 ]			
* Pituitary Gland	Pars Intermed	Adenoma	
[ Adenoma TGLS = 2-7 ]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Intermed Adenoma

CONTRIBUTORY CAUSE OF DEATH - Islets;Pancreatic Carcinoma

Animal Note: moribund condition due to pituitary and islet tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 90

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100200

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Islets, Pancreatic
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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 4-1 ]			
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 3-1 ]			
* Lung		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Mesentery		Histiocytic Sarcoma	
* Ovary		Cyst	
[ Cyst TGLS = 1-6 ]			
[ Histiocytic Sarcoma TGLS = 1-6 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH** - Uterus Histiocytic Sarcoma

Animal Note: moribund condition due to histiocytic sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 91

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 866

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100201

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 5-10 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]			
Lymph Node		Lymphoma Malignant Mixed	
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-9 ]			
* Ovary		Cyst	
		Lymphoma Malignant Mixed	
Note: unilateral cyst, contralateral lymphoma			
[ Cyst TGLS = 2-6 ]			
[ Lymphoma Malignant Mixed TGLS = 2-6 ]			
* Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: pancreatic node

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 91

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 866

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100201

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: moribund condition due to lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 92

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 555

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100202

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Adrenal Medulla	Harderian Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Heart		Mineralization	Minimal
* Intestine Small, Jejunum		Histiocytic Sarcoma	
* Kidney		Cytoplasmic Alteration	Marked
Note: EOSINOPHILIC PROTEIN DROPLETS IN PROX TUBULES [ Cytoplasmic Alteration TGLS = 6-1 ]			
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = [ HISTIO SARC ] TGLs = 5-1+2 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery		Histiocytic Sarcoma	
* Ovary		Cyst	
		Histiocytic Sarcoma	
[ Cyst TGLS = 3-6 ] [ Histiocytic Sarcoma TGLS = 3-6 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-8 ]			
* Uterus		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 4-6 ]			

**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 92

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 555

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100202

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: MORIBUND COND DUE TO HISTIO SARC

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 93	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100203

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

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**OBSERVATIONS**

* Brain			
Note: compression noted			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 94

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100204

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Lymphoma Malignant Mixed	
	Nephropathy	Minimal
* Liver	Eosinophilic Focus	
	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-8 ]		
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed	
* Ovary	Cyst	
[ Cyst TGLS = 2-6 ]		
* Spleen	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-1 ]		

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 95	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 796
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9100205

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Salivary Glands	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

Harderian Gland	* Intestine Small, Ileum	* Thymus
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**OBSERVATIONS**

* Bone Marrow	Hemangiosarcoma	Multiple
Mesentery	Hemangiosarcoma	
Note: hemangiosarcoma may have originated in bone marrow and spread into abdominal cavity [ Hemangiosarcoma TGLS = 2-9 ]		
* Ovary	Cyst	
Perph Nerve		
Note: sciatic nerve degeneration mild		
* Spleen	Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-1 ]		

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**PRIMARY CAUSE OF DEATH** - Mesentery Hemangiosarcoma

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Animal Note: COD, hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 96

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100206

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Mild
* Gallbladder		Inflammation	Chronic Active, Mild
* Intestine Small, Jejunum [ Hyperplasia TGLS = 2-9 ]		Hyperplasia	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 1-8 ]		Hepatocellular Adenoma	
* Lymph Node, Mesenteric		Angiectasis	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Stomach, Forestomach Note: two foci [ Hyperplasia TGLS = 3-10 ]		Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 97

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 771

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100207

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Lung	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

* Lymph Node, Mandibular	* Pancreas	* Pituitary Gland
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**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 5-11 ]			
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant Mixed	
[ Hepatocellular Adenoma TGLS = 2-8 ]			
Lymph Node		Lymphoma Malignant Mixed	
Note: [ Lymph Mal Mixd ] TGLs = 3-9 renal node			
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-10 ]			
* Ovary		Cyst	
Note: thrombus noted			
[ Cyst TGLS = 6-6 ]			
* Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-1 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 97

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 771

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100207

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: COD, lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 901
	<b>DOSE:</b> 0 MG/KG 20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100208

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

Harderian Gland	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Mammary Gland		Hyperplasia	Mild
Note: hyperplasia is diffuse, unrelated to tgl 1.			
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 2-9 ]			
* Thymus		Atrophy	Moderate

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**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Sarcoma

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Animal Note: moribund condition due to fibrosarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 99

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 928

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100209

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Mammary Gland	* Nose	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Lung	Mediastinum	Lymphoma Malignant Mixed	
		Lymphoma Malignant Mixed	
	[ Lymphoma Malignant Mixed TGLS = 5-2 ]		
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
	[ Lymphoma Malignant Mixed TGLS = 4-7 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[ Lymphoma Malignant Mixed TGLS = 6-4 ]		
* Ovary		Cyst	
		Lymphoma Malignant Mixed	
* Pancreas		Lymphoma Malignant Mixed	
* Salivary Glands		Lymphoma Malignant Mixed	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
	[ Hematopoietic Cell Proliferation TGLS = 2-1 ]		
	[ Lymphoma Malignant Mixed TGLS = 3-1 ]		
* Thyroid Gland		Lymphoma Malignant Mixed	

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 99

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 928

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100209

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: lymphoma in most tissues

Animal Note: COD, lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 100

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100210

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland	* Pituitary Gland
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**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Nephropathy	Minimal
* Ovary	Cyst	
Note: one ovary out of plane of section [ Cyst TGLS = 1-6 ]		
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 101

**TRT#:** 2  
**DOSE:** 0 MG/KG 20%/36M

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 611  
**HISTO:** 9100211

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Hemangiosarcoma	
* Liver	Hematopoietic Cell Proliferation	Minimal
	Necrosis	Minimal
* Spleen	Hemangiosarcoma	
	Hematopoietic Cell Proliferation	Mild
[ Hemangiosarcoma TGLS = [ HEMANGIOSARC ] TGLs = 1-8 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
[ Hyperplasia TGLS = 3-9 ]		

**PRIMARY CAUSE OF DEATH** - Spleen Hemangiosarcoma

Animal Note: DEATH DUE TO HEMANGIOSARC

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 102

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 901

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100212

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Erythroid Cell	Hyperplasia Myelofibrosis	Mild Mild
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 2-9 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

Animal Note: moribund condition due to liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 103

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 537

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100213

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Brain	Neuron	Necrosis	Minimal
* Kidney		Nephropathy	Minimal
Mesentery		Sarcoma	Metastatic (Skin)
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-4 ]			

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Sarcoma

Animal Note: MORIBUND COND DUE TO FIBROSARC

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 104

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100214

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland	* Pituitary Gland
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**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Liver			
Note: nodule [tg-7], and adhesion [tgl-1] are not apparent on micro			
Lymph Node	Axillary	Sarcoma	Metastatic (Skin)
	Pancreatic	Sarcoma	Metastatic (Skin)
Note: [ SARCOMA ] TGLs = 4-9, axillary node tgl 5-10, pancreatic node			
Lymph Node, Mediastinal		Sarcoma	Metastatic (Skin)
[ Sarcoma TGLS = 6-7 ]			
Mesentery		Sarcoma	Metastatic (Skin)
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-1 ]			
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Sarcoma

Animal Note: MORIBUND CONDITION DUE TO SARCOMA

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 105

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1050

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100215

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Gallbladder	* 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
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Sarcoma

Animal Note: moribund condition due to fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 106

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100216

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* 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	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
Lymph Node		Hyperplasia	Lymphoid, Marked
Note: [ Hyperplasia ] TGLs = 1-8, lumbar node			
* Ovary		Cyst	
* Pancreas	Acinus	Atrophy	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 2-9 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 107

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100217

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2,4-8+1 ]		
* Ovary	Cyst	
Note: thrombus has mineralization also	Thrombosis	Moderate
[ Thrombosis TGLS = 1-6 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: multiple foci	Squamous Cell Papilloma	
[ Hyperplasia TGLS = 3-4+9 ]		

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 108

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100218

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Moderate
* Kidney		Nephropathy	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: abscessed core			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 109

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 938

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Natural Death

**HISTO:** 9100219

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 5-9 ]			
* Kidney		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-1 ]			
* Liver		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-1+2 ]			
* Lung	Mediastinum	Lymphoma Malignant Mixed	
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-8 ]			
* Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-1 ]			
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: COD, lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 110

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 875

**DOSE:** 0 MG/KG 20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100220

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* 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	

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Brain		Astrocytoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Uterus		Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

- Brain Astrocytoma Malignant

Animal Note: moribund condition due to brain tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 111

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100331

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Uterus	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100332

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland	* Lymph Node, Mandibular	* Pituitary Gland
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**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 113

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100333

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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**

* Bone Marrow	Myelofibrosis	Minimal
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 114

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100334

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 115

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100335

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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		

**MISSING**

Harderian Gland

**OBSERVATIONS**

\* Ovary

Note: only one ovary on slide

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 116

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100336

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

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Animal Note: SECOND FOCUS ON SLIDE 4

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 644

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Natural Death

**HISTO:** 9100337

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Kidney		
Note: large chunk of bone with marrow in cortex		
* Liver	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-1 ]		
* Lymph Node, Mandibular	Histiocytic Sarcoma	
	Hyperplasia	Lymphoid, Marked
[ Histiocytic Sarcoma TGLS = 4-7 ]		
Lymph Node, Mediastinal	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 5-8 ]		
* Lymph Node, Mesenteric	Histiocytic Sarcoma	
	Hyperplasia	Lymphoid, Marked
* Spleen	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-1, 3-1 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 7-4 ]		
* Thymus	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 6-8 ]		

PRIMARY CAUSE OF DEATH

- Spleen Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 644

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Natural Death

**HISTO:** 9100337

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: histio sarc in many blood vessels; may also have early lymphoma

Animal Note: COD, histiocytic sarcoma

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**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 118

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100338

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Stomach, Forestomach	Hyperplasia	Focal, Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 119

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100339

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* 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		

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant Mixed TGLS = 5-10 ]	Lymphoma Malignant Mixed	
* Kidney Note: lymphoid infiltrates noted	Nephropathy	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 2-1 ] [ Lymphoma Malignant Mixed TGLS = 1,3,4-8+1+9 ]	Hepatocellular Adenoma Lymphoma Malignant Mixed	
* Ovary Note: only one ovary in plane of section		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Uterus Note: suppurative exudate noted		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 120

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100340

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

\* Int Sm Duoden

Note: duodenum section too close to pyloric stomach

\* Ovary

Angiectasis

Mild

\* Stomach, Forestomach

Hyperplasia

Focal, Mild

Note: two foci

[ Hyperplasia TGLS = 1-8 ]

\* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 121

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100341

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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		

**MISSING**

Harderian Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100342

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Clitoral Gland	Harderian Gland	* Pituitary Gland
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**OBSERVATIONS**

* Bone Marrow		Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
	Bile Duct	Hyperplasia	Mild
Note: fibrohistiocytic tumor pattern with numerous PMN's [ Histiocytic Sarcoma TGLS = 2-9 ]			
* Lung		Histiocytic Sarcoma	
Lymph Node, Mediastinal		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Note: tumor contains multinucleated giant cells, PMN's, fibro-histiocytic cells; may be myelogenous tumor. [ Histiocytic Sarcoma TGLS = 3-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100343

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100344

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Liver	Basophilic Focus	
* Stomach, Forestomach [ Hyperplasia TGLS = 1-4+8 ]	Hyperplasia	Focal, Moderate

**PRIMARY CAUSE OF DEATH** -

Animal Note: MULTIPLE "FOCAL" LESIONS

Animal Note: FOCI ASS'D WITH ULCERS/INFLAMMATION

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 125

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100345

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	Peripheral Nerve
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland	* Pituitary Gland
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**OBSERVATIONS**

* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 1,2-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100346

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Lung	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100347

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 128

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 400

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Moribund Sacrifice

**HISTO:** 9100348

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	Ear	* Esophagus
* Gallbladder	* 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	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Blood Vessel Note: SIGNIFICANT ARTERITIS IN SPINAL ARTERIES, MIDDLE EAR SECTION	Inflammation	Chronic Active, Mild
Ear Note: ARTERITIS NOTED; SEE BLOOD VESSEL		
Spinal Cord Note: ARTERITIS NOTED; SEE BLOOD VESSEL		
* Stomach, Forestomach	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH** - Blood Vessel Inflammation

Animal Note: TILT AND ATAXIA CAUSED BY ASSOCIATED ARTERITIS

Animal Note: MORIBUND COND DUE TO HEAD TILT, ATAXIA

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 129

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100349

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: two foci		
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 130

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100350

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Moderate

Note: multiple foci  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 131

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100351

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Stomach, Forestomach Note: two foci [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Minimal
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 132

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100352

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland	* Nose	* Parathyroid Gland
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**OBSERVATIONS**

* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 133

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100353

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mandibular  
\* Ovary  
\* Skin  
\* Thymus  
\* Uterus

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Spleen  
\* Thyroid Gland

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Liver  
\* Mammary Gland  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lung  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

**MISSING**

Harderian Gland

**OBSERVATIONS**

\* Parathyroid Gland

Cyst

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 538

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Natural Death

**HISTO:** 9100354

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Bone	Vertebra	Osteosarcoma	
[ Osteosarcoma TGLS = 3-9 ]			
* Heart	Pericardium	Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 2-8 ]			
* Liver		Osteosarcoma	Metastatic (Bone)
* Lung		Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 1-2 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Osteosarcoma	Metastatic (Bone)

**PRIMARY CAUSE OF DEATH** - Lung Osteosarcoma Bone

Animal Note: DEATH DUE TO OSTEOSARC

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 135

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100355

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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**

Harderian Gland

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100356

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Adrenal Medulla	Pheochromocytoma Benign	
* Parathyroid Gland	Cyst	
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: two foci		
[ Hyperplasia TGLS = 1-8 ]		
* Uterus	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 137

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100357

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild
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**PRIMARY CAUSE OF DEATH**

-

Animal Note: LESION ASS'D WITH ULCER

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 138

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100358

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Liver	Eosinophilic Focus Hepatocellular Adenoma	
Note: moderate lymphoid infiltrate [ Hepatocellular Adenoma TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach [ Hyperplasia TGLS = 2-9 ]	Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 139

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100359

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 1-6 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 2-8 ]			
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 140

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Moribund Sacrifice

**HISTO:** 9100360

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Liver		Necrosis	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Ovary		Cyst	
Note: cyst blood filled [ Cyst TGLS = 1-6 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
Note: two foci [ Hyperplasia TGLS = 2-8 ]			
* Thymus		Atrophy	Marked
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

- Ovary Cyst

Animal Note: moribund condition due to hemorrhage into ovarian cyst

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100361

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland	* Parathyroid Gland
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100362

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Ovary	Cyst	
* Stomach, Forestomach Note: two foci [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 143

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100363

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Liver	* Lung	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland \* Thymus

**OBSERVATIONS**

* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
* Kidney		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-1+8 ]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Lymphoma Malignant Mixed	
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-9 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 144

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100364

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Ovary			
Note: only one ovary in plane of section			
* Pancreas	Acinus	Atrophy	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 145

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100365

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Liver  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

**MISSING**

Harderian Gland

**OBSERVATIONS**

\* Lung Alveolar/Bronchiolar Adenoma  
Note: lung nodule on slide seven not on slide two

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 146

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100366

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Pancreas	Acinus	Atrophy	Marked
* Parathyroid Gland			
Note: parathyroid cyst noted			
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci with abscessed core			
[ Hyperplasia TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 147

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100367

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

\* Stomach, Forestomach

Hyperplasia

Focal, Mild

Note: multiple foci

[ Hyperplasia TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100368

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Stomach, Forestomach Note: numerous foci [ Hyperplasia TGLS = 1-8 ]	Hyperplasia	Focal, Marked
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 149

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100369

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Stomach, Forestomach [ Hyperplasia TGLS = 1-4+8 ]	Hyperplasia	Focal, Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 150

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100370

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Mild
* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Nephropathy	Minimal
* Thymus	Hyperplasia	Lymphoid, Marked

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 151

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100371

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant Mixed TGLS = 2-4 ]	Lymphoma Malignant Mixed	
Lymph Node, Mediastinal	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 1-8 ]	Lymphoma Malignant Mixed	
* Spleen	Lymphoma Malignant Mixed	
* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 3-9 ]	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 152

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100372

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Nephropathy	Minimal
* Ovary		
Note: true cyst not apparent		
* Uterus	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 153

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 378

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Dosing Accident

**HISTO:** 9100373

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Gallbladder
* 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			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Esophagus	Periesoph Tiss	Degeneration	Moderate
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Note: PERIESOPH TISS APPEARS EDEMATOUS/MYXOMATOUS

**PRIMARY CAUSE OF DEATH**

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Animal Note: ESOPH INJURY DUE TO DOSING TRAUMA

Animal Note: DEATH PRESUMED RELATED TO SUBACUTE ESOPH INJURY

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 154

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 597

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Natural Death

**HISTO:** 9100374

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Cytoplasmic Alteration	Mild
Note: HISTIOSARC IN VESSELS PLUS ANEMIA PROB CONTRIB TO TGL-7 [ Cytoplasmic Alteration TGLS = 7-1 ]			
* Liver		Histiocytic Sarcoma	
Note: HEMORRHAGE/CONGESTION WITHIN TUMOR EQUATES TO TGL-4 FOCI [ Histiocytic Sarcoma TGLS = [ HISTIO SARC ] TGLs = 3,4,5,6-1+2+9+10 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Histiocytic Sarcoma	
		Hyperplasia	Cystic, Minimal
[ Histiocytic Sarcoma TGLS = 2-8 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

Animal Note: DEATH DUE TO HISTIO SARC

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 155

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100375

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Mild
[ Cyst TGLS = 1-6 ]			
* Pancreas	Acinus	Atrophy	Marked
	Duct	Ectasia	Marked
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci			
[ Hyperplasia TGLS = 2-8 ]			
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 156

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100376

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Ovary [ Cyst TGLS = 1-6 ]	Cyst	Mild
* Stomach, Forestomach Note: multiple foci with abscessed core [ Hyperplasia TGLS = 2-8 ]	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 157

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100377

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Ovary [ Cyst TGLS = 1-6 ]	Cyst	Minimal
* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 2-8 ]	Hyperplasia	Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 158

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100378

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Skin		Basal Cell Adenoma	
Note: small basal cell tumor in inguinal area near clitoral gland			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 1-8 ]			
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 159

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100379

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 1-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 160

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100380

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach		Hyperplasia	Focal, Moderate

Note: multiple foci with abscessed cores  
[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 161

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100381

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	Alveolar Epith	Hyperplasia	Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 162

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100382

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci [ Hyperplasia TGLS = 1-8 ]			
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 163

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100383

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
* Ovary	Cyst	
Note: second ovary out of plane of section [ Cyst TGLS = 1-6 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 164

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100384

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: multiple foci [ Hyperplasia TGLS = 1-8 ]			
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 165

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100385

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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, Mediastinal	* 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**

* Bone Marrow	Myelofibrosis	Mild
* Uterus	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 166

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100386

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thymus
* Thyroid Gland	Tissue NOS	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Ovary	Cyst	
[ Cyst TGLS = 1-6 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 167

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100387

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Urinary Bladder		

**MISSING**

* Parathyroid Gland	* Thyroid Gland	* Trachea
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**OBSERVATIONS**

* Ovary	Cyst
[ Cyst TGLS = 1-6 ]	
* Uterus	Polyp Stromal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 168

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100388

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Liver  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Skin  
\* Thymus  
\* Uterus

**MISSING**

Harderian Gland

\* Parathyroid Gland

**OBSERVATIONS**

\* Lung  
[ Hyperplasia TGLS = 1-2 ]

Alveolar Epith

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 169

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Scheduled Sacrifice

**HISTO:** 9100389

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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			

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Uterus	Hyperplasia	Cystic, Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 170

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 25 MG/KG104/WEEK

**DISP:** Terminal Sacrifice

**HISTO:** 9100390

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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**

\* Uterus Polyp Stromal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 171

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 679

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100391

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Histiocytic Sarcoma	
* Liver	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-1 ]		
* Lymph Node, Mandibular	Histiocytic Sarcoma	
Lymph Node, Mediastinal	Histiocytic Sarcoma	
* Lymph Node, Mesenteric	Histiocytic Sarcoma	
* Ovary	Histiocytic Sarcoma	
Note: Only one ovary on slide		
* Spleen	Hematopoietic Cell Proliferation	Marked
* Thymus	Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

Animal Note: moribund condition due to histio sarc, histio sarc cells in many blood vessels

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 172

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100392

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Bone Marrow		Hemangiosarcoma	
* Ovary		Cyst	
[ Cyst TGLS = 1-6 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-1 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 173

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lymph Node, Mesenteric		Angiectasis	Moderate
* Skin	Subcut Tiss	Inflammation	Chronic Active, Moderate
* Stomach, Forestomach		Hyperplasia	Focal, Moderate
Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 1-8 ]			
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 174

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1007

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100394

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Lymph Node, Mesenteric	* Thymus
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**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Liver	Hepatocellular Adenoma	
	Necrosis	Mild
[ Hepatocellular Adenoma TGLS = 1-8 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]		
* Ovary		
Note: only one ovary in plane of section		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
	Mineralization	Mild
* Stomach, Glandular	Mineralization	Mild

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Adenoma

Animal Note: moribund condition due to infarcted liver tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 175

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100395

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland                      \* Thymus

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
* Kidney	Lymphoma Malignant Mixed	
	Nephropathy	Mild
Lymph Node	Lymphoma Malignant Mixed	
Note: [ Lymph Mal Mixd ] TGLs = 2-8, pancreatic node		
* Lymph Node, Mandibular	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-4 ]		
* Ovary	Cyst	
* Spleen	Lymphoma Malignant Mixed	
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
Note: two foci		
[ Hyperplasia TGLS = 4-4+9 ]		
* Uterus	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-6 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 176

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 830

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Adren Cortex Note: only one adrenal found			
* Bone Marrow		Myelofibrosis	Minimal
* Liver Note: deformity present, tgl 2			
* Ovary [ Cyst TGLS = 1-6 ]		Cyst	
* Pancreas Note: only rare, small islets found			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: COD, undetermined

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 177

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1056

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100397

**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	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland \* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Gallbladder		Inflammation	Chronic Active, Mild
* Intestine Small, Jejunum [ Hemorrhage TGLS = 2-4 ]		Hemorrhage	Mild
* Islets, Pancreatic		Adenoma	
* Lung		Alveolar/Bronchiolar Adenoma	
* Ovary		Cystadenoma	
* Pituitary Gland [ Adenoma TGLS = 1-7 ]	Pars Distalis	Adenoma	
* Stomach, Forestomach [ Hyperplasia TGLS = 3-4 ]		Hyperplasia	Focal, Mild
* Thyroid Gland	Bilateral, Follicular Cel Follicular Cel	Adenoma Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

Animal Note: COD,pituitary tumor and multiple endocrine disfunctions

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 178

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 961

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100398

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* 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	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
Eye	Lens	Cataract	Mild
[ Cataract TGLS = 1-8 ]			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: COD, undetermined

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 179

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100399

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Liver [ Histiocytic Sarcoma TGLS = 3-1+2+8 ]	Histiocytic Sarcoma	
* Lymph Node, Mesenteric Mesentery	Histiocytic Sarcoma Histiocytic Sarcoma	
* Ovary [ Cyst TGLS = 1-6 ]	Cyst	
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Atrophy	Mild
* Urinary Bladder	Histiocytic Sarcoma	
* Uterus [ Histiocytic Sarcoma TGLS = 2-6 ]	Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 180      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 1069  
**DOSE:** 25 MG/KG20%/36M      **DISP:** Natural Death      **HISTO:** 9100400

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland      \* Ovary

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Intestine Large, Cecum		Lymphoma Malignant Mixed	
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
* Liver	Bile Duct	Cyst	
		Hepatocellular Adenoma	
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[ Lymphoma Malignant Mixed TGLS = 1-8 ]		
* Ovary			
	Note: both ovaries missing, out of plane		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Lymphoma Malignant Mixed	
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**      - Lymph Node, Mesenteric      Lymphoma Malignant Mixed

Animal Note: COD, lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 181

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100401

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Harderian Gland \* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Angiectasis	Marked
* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-1 ]			

**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Sarcoma

Animal Note: moribund condition due to skin tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 182

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100402

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Ovary	Angiectasis	Moderate
	Thrombosis	Moderate
[ Angiectasis TGLS = 1-6 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
Note: two foci, one with abscessed core		
[ Hyperplasia TGLS = 2-8 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 183

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 980

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-8 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Ovary Note: One ovary out of plane			
* Pituitary Gland	Pars Intermed	Adenoma	
* Stomach, Forestomach [ Hyperplasia TGLS = 2-9 ]		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Intermed Adenoma

Animal Note: moribund condition due to pituitary tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 184

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1016

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100404

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Kidney		Lymphoma Malignant Mixed	
* Liver	Bile Duct	Cyst	
		Hepatocellular Adenoma	Multiple
		Lymphoma Malignant Mixed	
[ Cyst TGLS = 6-9 ]			
[ Hepatocellular Adenoma TGLS = 5-8,7-10 ]			
* Lung		Lymphoma Malignant Mixed	
Lymph Node		Lymphoma Malignant Mixed	
Note: [ Lymph Mal Mixd ] TGLs = 9-12, lumbar; tgl 10-13, renal			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-7 ]			
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-7 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 8-11 ]			
* Ovary		Cyst	
		Lymphoma Malignant Mixed	
[ Cyst TGLS = 4-6 ]			
* Pituitary Gland	Pars Intermed	Adenoma	
* Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:29  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 184	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1016
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9100404

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Hyperplasia	Focal, Mild
* Thymus	Lymphoma Malignant Mixed	

---

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

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Animal Note: moribund condition due to lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 185

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100405

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 3-1 ] [ Hepatocellular Carcinoma TGLS = 2-8 ]		
* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma Hyperplasia	Minimal
	Note: crystals and clefts in lung tumor and one other site [ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]		
* Ovary		Cyst	
	[ Cyst TGLS = 1-6 ]		
* Stomach, Forestomach		Hyperplasia	Focal, Mild
	Note: two foci, one with abscessed core [ Hyperplasia TGLS = 5-9 ]		
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 186

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100406

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	Harderian Gland	* Heart
* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Intestine Large, Cecum

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Moderate
Eye	Lens	Cataract	Minimal
[ Cataract TGLS = 1-8 ]			
* Liver		Basophilic Focus	
[ Basophilic Focus TGLS = 3-1 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 187

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 803

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100407

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

Harderian Gland                      \* Thymus

**OBSERVATIONS**

* Liver	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-1+2 ]		
* Ovary	Cyst	
* Spleen	Hematopoietic Cell Proliferation	Marked
* Uterus	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-6 ]		

**PRIMARY CAUSE OF DEATH**                      - Uterus    Histiocytic Sarcoma

Animal Note: COD, histiocytic sarcoma

Animal Note: histiocytic sarcoma in many blood vessels

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 188

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 848

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100408

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Lung		Alveolar/Bronchiolar Adenoma	
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-1 ]			

**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Sarcoma

Animal Note: moribund condition due to skin tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 189

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian 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
* Pituitary Gland	* Salivary Glands	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
* Kidney	Nephropathy	Minimal
* Liver	Mixed Cell Focus	
* Parathyroid Gland	Cyst	
* Spleen	Hemangiosarcoma	
	Hematopoietic Cell Proliferation	Minimal
Note: very cellular tumor [ Hemangiosarcoma TGLS = 1-1 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-4 ]		
* Stomach, Glandular	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 190

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 1-2 ]		
* Ovary	Cyst	
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci		
[ Hyperplasia TGLS = 2-4 ]		
Tooth	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 191

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Ovary [ Cyst TGLS = 1-6 ]		Cyst	
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 3-8 ]		Hyperplasia	Focal, Minimal
* Thyroid Gland [ Carcinoma TGLS = 2-2 ]	Follicular Cel	Carcinoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05121-08

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014

Time Report Requested: 06:24:30

First Dose M/F: NA / NA

Lab: BAT

**ANIMAL ID:** 192

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100412

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Thymus
- \* Uterus

- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thyroid Gland

**MISSING**

Harderian Gland

**OBSERVATIONS**

- \* Bone Marrow
- \* Kidney
- \* Stomach, Forestomach
- [ Hyperplasia TGLS = 1-4 ]

Myelofibrosis  
 Nephropathy  
 Hyperplasia

Minimal  
 Minimal  
 Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 193

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 972

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100413

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

Harderian Gland	Bilateral	Adenoma	
* Kidney		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 5-1 ]			
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 4-1+2 ]			
* Lung		Histiocytic Sarcoma	
Lymph Node, Mediastinal		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 6-4 ]			
Mesentery		Histiocytic Sarcoma	
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 1-6 ]		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-1 ]			
* Uterus		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-6 ]		Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Histiocytic Sarcoma

Animal Note: moribund condition due to histiocytic sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 194

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 561

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**MISSING**

Harderian Gland	* Intestine Large, Rectum
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**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Heart		Lymphoma Malignant Lymphocytic	
* Kidney		Lymphoma Malignant Lymphocytic	
* Liver		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 6-1+2 ]			
* Lung		Lymphoma Malignant Lymphocytic	
Lymph Node	Axillary	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 2-7 ]			
Lymph Node, Bronchial		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 9-2 ]			
* Lymph Node, Mandibular		Lymphoma Malignant Lymphocytic	
Lymph Node, Mediastinal		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 8-7 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic	
Mesentery		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 4-4+8 ]			
* Ovary		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-6 ]			
* Pancreas		Lymphoma Malignant Lymphocytic	
* Salivary Glands		Lymphoma Malignant Lymphocytic	
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 194	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 561
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9100414

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 5-9 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Moderate
[ Hyperplasia TGLS = 10-4 ]		
* Thymus	Lymphoma Malignant Lymphocytic	
* Urinary Bladder	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 7-4 ]		
* Uterus	Hyperplasia	Cystic, Minimal
	Lymphoma Malignant Lymphocytic	

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**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Lymphocytic

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Animal Note: DEATH DUE TO MALIG LYMPH

Animal Note: axillary node

Animal Note: MALIG LYMPH IN NUMEROUS MISC TISSUES

Animal Note: TGL-2, MAMMARY, CODED "AXILLARY LN" MICROSCOPICALLY

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 195

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 790

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100415

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	Harderian Gland
* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow	Lymphoma Malignant Mixed
* Gallbladder	Lymphoma Malignant Mixed
* Kidney	Lymphoma Malignant Mixed
* Liver	Lymphoma Malignant Mixed
* Lung	Lymphoma Malignant Mixed
Lymph Node	Lymphoma Malignant Mixed
Note: [ Lymph Mal Mixd ] TGLs = 3-8, renal	
Lymph Node, Mediastinal	Lymphoma Malignant Mixed
[ Lymphoma Malignant Mixed TGLS = 5-7 ]	
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed
[ Lymphoma Malignant Mixed TGLS = 4-4 ]	
* Ovary	Lymphoma Malignant Mixed
[ Lymphoma Malignant Mixed TGLS = 2-6 ]	
* Pancreas	Lymphoma Malignant Mixed
* Spleen	Lymphoma Malignant Mixed
[ Lymphoma Malignant Mixed TGLS = 1-1 ]	
* Thymus	Lymphoma Malignant Mixed
* Uterus	Lymphoma Malignant Mixed

**PRIMARY CAUSE OF DEATH**

- Lymph Node, Mesenteric Lymphoma Malignant Mixed

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 195

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 790

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100415

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: COD, lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 196

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1045

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100416

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Skin	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex Note: only one adrenal		Lymphoma Malignant Lymphocytic
Blood		Lymphoma Malignant Lymphocytic
* Bone Marrow		Lymphoma Malignant Lymphocytic
* Brain		Lymphoma Malignant Lymphocytic
* Gallbladder		Lymphoma Malignant Lymphocytic
* Heart		Lymphoma Malignant Lymphocytic
* Kidney		Lymphoma Malignant Lymphocytic
* Liver		Lymphoma Malignant Lymphocytic
* Lung [ Lymphoma Malignant Lymphocytic TGLS = 6-2 ]		Lymphoma Malignant Lymphocytic
Lymph Node Lumbar		Lymphoma Malignant Lymphocytic
Pancreatic		Lymphoma Malignant Lymphocytic
Renal		Lymphoma Malignant Lymphocytic
[ Lymphoma Malignant Lymphocytic TGLS = 7-9 ]		
[ Lymphoma Malignant Lymphocytic TGLS = 8-10 ]		
[ Lymphoma Malignant Lymphocytic TGLS = 4-8 ]		
* Lymph Node, Mandibular [ Lymphoma Malignant Lymphocytic TGLS = 2-7 ]		Lymphoma Malignant Lymphocytic
Lymph Node, Mediastinal [ Lymphoma Malignant Lymphocytic TGLS = 3-7 ]		Lymphoma Malignant Lymphocytic
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic
* Ovary		Lymphoma Malignant Lymphocytic
* Pancreas		Lymphoma Malignant Lymphocytic

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 196

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1045

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100416

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Lymphoma Malignant Lymphocytic TGLS = 4-8 ]

\* Salivary Glands

Lymphoma Malignant Lymphocytic

\* Spleen

Lymphoma Malignant Lymphocytic

[ Lymphoma Malignant Lymphocytic TGLS = 1-1 ]

\* Stomach, Forestomach

Lymphoma Malignant Lymphocytic

\* Stomach, Glandular

Lymphoma Malignant Lymphocytic

\* Thymus

Lymphoma Malignant Lymphocytic

\* Thyroid Gland

Lymphoma Malignant Lymphocytic

\* Urinary Bladder

Lymphoma Malignant Lymphocytic

\* Uterus

Lymphoma Malignant Lymphocytic

[ Lymphoma Malignant Lymphocytic TGLS = 5-6 ]

**PRIMARY CAUSE OF DEATH**

- Lymph Node, Mesenteric Lymphoma Malignant Lymphocytic

Animal Note: most tissues are affected with tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 197

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1056

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100417

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Adrenal Cortex	Lymphoma Malignant Lymphocytic	
* Bone Marrow	Myelofibrosis	Minimal
Note: infarction noted		
* Kidney	Lymphoma Malignant Lymphocytic	
* Liver	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 3-8 ]		
* Lung	Lymphoma Malignant Lymphocytic	
* Lymph Node, Mandibular	Lymphoma Malignant Lymphocytic	
Lymph Node, Mediastinal	Lymphoma Malignant Lymphocytic	
* Lymph Node, Mesenteric	Lymphoma Malignant Lymphocytic	
* Ovary	Lymphoma Malignant Lymphocytic	
* Pancreas	Lymphoma Malignant Lymphocytic	
* Spleen	Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 2-1 ]		

**PRIMARY CAUSE OF DEATH**

- Lymph Node, Mesenteric Lymphoma Malignant Lymphocytic

Animal Note: appears to be leukemic

Animal Note: moribund condition due to lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 198

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100418

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Nephropathy	Minimal
* Stomach, Forestomach	Hyperplasia	Focal, Mild

Note: multiple foci, abscessed cores

[ Hyperplasia TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 199	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100419

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Trachea
* Urinary Bladder			

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**MISSING**

Harderian Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Bone Marrow		Myelofibrosis	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-1 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Cyst	
* Stomach, Forestomach		Hyperplasia	Focal, Marked
Note: multiple foci, abscessed cores			
[ Hyperplasia TGLS = 2-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 200

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100420

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	Harderian Gland
* 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, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Angiectasis	Mild
* Bone Marrow	Myelofibrosis	Mild
* Ovary [ Cyst TGLS = 1-6 ]	Cyst	
* Stomach, Forestomach Note: two foci, abscessed cores [ Hyperplasia TGLS = 2-8 ]	Hyperplasia	Focal, Mild
* Uterus	Polyp Stromal	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 201

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 859

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100421

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
Note: severe ulceration over peyer's patch			
[ Lymphoma Malignant Mixed TGLS = 4-9 ]			
* Kidney		Lymphoma Malignant Mixed	
* Liver		Hematopoietic Cell Proliferation	Mild
Lymph Node		Lymphoma Malignant Mixed	
Lymph Node, Mediastinal		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-7 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-8 ]			
Mesentery		Lymphoma Malignant Mixed	
* Ovary		Lymphoma Malignant Mixed	
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-1 ]			
* Thymus		Lymphoma Malignant Mixed	

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: pancreatic lymph node

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 201

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 859

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100421

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: lymphoma in many misc. tissues

Animal Note: moribund condition due to lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 202

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1045

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100422

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian 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	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Brain		Histiocytic Sarcoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Histiocytic Sarcoma	
[ Hepatocellular Adenoma TGLS = 3-9 ]			
[ Histiocytic Sarcoma TGLS = 1-1+2+9 ]			
* Pancreas	Acinus	Atrophy	Marked
	Duct	Ectasia	Marked
[ Ectasia TGLS = 2-8 ]			
* Pituitary Gland		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
Note: abscessed core			
[ Hyperplasia TGLS = 4-4 ]			
Tooth		Histiocytic Sarcoma	

**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

Animal Note: moribund condition due to histiocytic sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 203

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 995

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Thymus

**OBSERVATIONS**

* Heart		Degeneration	Minimal
* Intestine Small, Jejunum [ Sarcoma TGLS = 5-11 ]		Sarcoma	Metastatic (Skin)
* Liver Mesentery		Basophilic Focus Sarcoma	Metastatic (Skin)
* Ovary  [ Cyst TGLS = 4-6 ]		Cyst Sarcoma	Metastatic (Skin)
* Skin [ Sarcoma TGLS = 1-8,2-9,3-10 ]	Subcut Tiss	Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Focal, Minimal

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Sarcoma

Animal Note: COD, skin tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 204

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 987

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100424

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adren Cortex			
Note: only one adrenal			
Eye	Lens	Cataract	Minimal
[ Cataract TGLS = 1-8 ]			
Harderian Gland		Hyperplasia	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-9 ]			
* Ovary		Cyst	
[ Cyst TGLS = 2-6 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus		Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: cause of moribund condition unclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 205	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 846
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Dosing Accident	<b>HISTO:</b> 9100425

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

Harderian Gland

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**OBSERVATIONS**

* Esophagus	Periesoph Tiss	Hemorrhage	Marked
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
[ Hyperplasia TGLS = 2-2 ]			
* Ovary		Cyst	
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-6 ]			

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**PRIMARY CAUSE OF DEATH** - Esophagus Periesoph Tiss Hemorrhage

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Animal Note: COD,trauma during dosing

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 206

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100426

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Kidney
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

Blood			
Note: granulocytic leukocytosis			
* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
Note: massive ulcer in area of tumor			
[ Lymphoma Malignant Mixed TGLS = 1-8 ]			
* Islets, Pancreatic		Adenoma	
* Liver		Hematopoietic Cell Proliferation	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-8 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin			
Note: sub dermal acute inflammation			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-1 ]			
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH** - Intestine Small, Jejunum Lymphoma Malignant Mixed

Animal Note: death due to lymphoma and septicemia

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 207

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100427

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Medulla	Hyperplasia	Marked
* Liver [ Hepatocellular Adenoma TGLS = 1-8 ]	Hepatocellular Adenoma	
* Lung Note: eosin crystals and hemorrhage plus macrophage response [ Inflammation TGLS = 2-2 ]	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach Note: multiple foci, abscessed cores [ Hyperplasia TGLS = 3-9 ]	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 208

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Bone Marrow	Myelofibrosis	Mild
Harderian Gland	Adenoma	
[ Adenoma TGLS = 3-8 ]		
* Kidney	Nephropathy	Minimal
* Ovary	Adenoma	
	Cyst	
Note: cyst left, adenoma right		
[ Adenoma TGLS = 1-6 ]		
[ Cyst TGLS = 2-6 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: abscessed core		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 209

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 848

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Gallbladder	* 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	* Pituitary Gland
* Salivary Glands	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

**MISSING**

* Clitoral Gland	Harderian Gland
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**OBSERVATIONS**

* Brain Note: possible cholesteatoma		Granuloma	Focal, Mild
* Kidney	Pelvis	Inflammation Nephropathy Hepatocellular Carcinoma	Chronic Active, Mild Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 2-1 ]			
* Skin [ Squamous Cell Carcinoma TGLS = 1-8 ]		Squamous Cell Carcinoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach Note: two foci [ Hyperplasia TGLS = 3-4 ]		Hyperplasia	Focal, Mild
* Urinary Bladder		Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH** - Urinary Bladder Inflammation

Animal Note: moribund condition due to urinary tract infection

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 210

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100430

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Clitoral Gland	Harderian Gland
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**OBSERVATIONS**

* Adrenal Medulla	Pheochromocytoma Benign	
* Ovary	Cyst	
[ Cyst TGLS = 3-6 ]		
* Stomach, Forestomach	Hyperplasia	Focal, Mild
Note: multiple foci, abscessed cores		
[ Hyperplasia TGLS = 2-8 ]		
* Uterus	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-6 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 211

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 815

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100431

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant Mixed TGLS = 3-9 ]	Lymphoma Malignant Mixed	
* Liver [ Lymphoma Malignant Mixed TGLS = 4-1,5-10,6-10,7-11 ]	Lymphoma Malignant Mixed	
* Lung Lymph Node	Lymphoma Malignant Mixed	
* Lymph Node, Mandibular Lymph Node, Mediastinal	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric [ Lymphoma Malignant Mixed TGLS = 2-8 ]	Lymphoma Malignant Mixed	
* Ovary Note: one ovary out of plane		
* Spleen [ Lymphoma Malignant Mixed TGLS = 1-1 ]	Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
* Stomach, Forestomach Note: multiple foci [ Hyperplasia TGLS = 8-11 ]	Hyperplasia	Focal, Mild
* Thymus	Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 211

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 815

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100431

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Lymph Node, Mesenteric Lymphoma Malignant Mixed

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Animal Note: COD, lymphoma

Animal Note: bronchial lymph node has lymphoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 212

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 1087

**DOSE:** 25 MG/KG20%/36M

**DISP:** Terminal Sacrifice

**HISTO:** 9100432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland	* Intestine Large, Cecum
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**OBSERVATIONS**

* Bone		Osteosarcoma	
Note: rib			
[ Osteosarcoma TGLS = 4-9 ]			
* Kidney		Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 2-10 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-8 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Ovary		Cyst	
* Pancreas	Acinus	Atrophy	Marked
	Duct	Ectasia	Marked
[ Ectasia TGLS = 3-10 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Mild
Note: two foci			
[ Hyperplasia TGLS = 6-4 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 213	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 1087
	<b>DOSE:</b> 25 MG/KG20%/36M	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9100433

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
* Ovary	Adenoma	Tubular
* Stomach, Forestomach [ Hyperplasia TGLS = 1-4 ]	Hyperplasia	Focal, Mild
* Uterus	Hyperplasia	Cystic, Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 214

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 814

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	Ear	* Esophagus	* Gallbladder
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Lymphoma Malignant Mixed	
* Bone Marrow	Myelofibrosis	Minimal
* Kidney	Lymphoma Malignant Mixed	
Lymph Node, Mediastinal	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed	
* Nose	Lymphoma Malignant Mixed	
* Ovary	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-6 ]		
* Spleen	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-1 ]		

**PRIMARY CAUSE OF DEATH** -

Animal Note: COD, ovarian tumor

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 215

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 13

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
Harderian Gland	* 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	* Stomach, Forestomach	* Thyroid Gland	* Trachea

**MISSING**

* Gallbladder	* Lymph Node, Mesenteric	* Urinary Bladder	* Uterus
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**OBSERVATIONS**

* Islets Panc Note: PRACTICALLY NO ISLET TISSUE ON SLIDE			
* Nose Note: BLOOD IN NOSE INTERPRETED TO BE ARTIFACT			
* Spleen	Depletion Lymphoid		Mild
* Stomach, Glandular	Erosion		Minimal
* Thymus	Atrophy		Moderate
* Uterus Note: CERVIX RATHER THAN TRUE UTERUS			

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

**Animal Note:** CAUSE OF MORIBUND COND NOT DETERMINED

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 216

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 974

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100436

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	Harderian Gland	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

Mesentery		Sarcoma	Metastatic (Skin)
* Pancreas		Sarcoma	Metastatic (Skin)
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
[ Hyperplasia TGLS = 2-4 ]			

**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Sarcoma

Animal Note: moribund condition due to fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 217

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 918

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100437

**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	* Mammary Gland	* Nose
* Ovary	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Gallbladder	Lymphoma Malignant Mixed	
* Liver	Angiectasis	Minimal
	Lymphoma Malignant Mixed	
[ Angiectasis TGLS = 1-1 ]		
* Lung	Lymphoma Malignant Mixed	
Lymph Node, Mediastinal	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 3-7 ]		
* Lymph Node, Mesenteric	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-4 ]		
* Pancreas	Acinus	Atrophy
		Moderate
* Spleen	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-1 ]	Lymphoma Malignant Mixed	

**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant Mixed

Animal Note: COD, lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 218

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 952

**DOSE:** 25 MG/KG20%/36M

**DISP:** Natural Death

**HISTO:** 9100438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* 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	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

Harderian Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Liver [ Hepatocellular Carcinoma TGLS = 3-1 ]	Hepatocellular Carcinoma
* Ovary	Cyst
* Spleen [ Hemangiosarcoma TGLS = 2-1 ]	Hemangiosarcoma
* Stom Forestom	
Note: TGLs 4-4 = No Corresponding Lesion microscopically	

**PRIMARY CAUSE OF DEATH** - Spleen Hemangiosarcoma

Animal Note: COD,hemorrhage from hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 219

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 699

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Harderian Gland	* Mammary Gland
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**OBSERVATIONS**

* Bone Marrow	Erythroid Cell	Hyperplasia	Marked
* Brain		Lymphoma Malignant Lymphocytic	
* Kidney		Lymphoma Malignant Lymphocytic	
Note: pale discoloration [tgl 3] presumably due to anemia			
* Liver		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 2-1 ]			
Lymph Node		Hematopoietic Cell Proliferation	Moderate
Note: [ Hema Cell Prol ] TGLS = 4-8, lumbar lymph node			
* Lymph Node, Mandibular		Hematopoietic Cell Proliferation	Moderate
* Spleen		Lymphoma Malignant Lymphocytic	
[ Lymphoma Malignant Lymphocytic TGLS = 1-1 ]			
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH** - Spleen Lymphoma Malignant Lymphocytic

Animal Note: moribund condition due to lymphoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05121-08  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 06:24:30  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 220

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 25 MG/KG20%/36M

**DISP:** Moribund Sacrifice

**HISTO:** 9100440

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Sarcoma

Animal Note: moribund condition due to skin tumor

**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE