

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C99020  
**Lock Date:** 12/21/2005  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 07/25/2008

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 1                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 731  
**DOSE:** 0    MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 0501251

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
		[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**                      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 2                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 730  
**DOSE:** 0    MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 0501252

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 1-10 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501253

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Moderate
<p>Note: One testicle affected.</p>			
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization Nephropathy	Minimal Minimal
<p>Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.</p>			
* Liver		Fatty Change Fatty Change Hematopoietic Cell Proliferation Hepatocellular Adenoma Inflammation Intravascular Hepatocyte Mixed Cell Focus	Focal, Mild Diffuse, Mild Minimal Multiple Minimal Minimal
	Vein		
<p>[ Hepatocellular Adenoma TGLS = 1,2,3-10+11+12 ]          [ Mixed Cell Focus TGLS = 2-11 ]</p>			
* Nose	Respirat Epith	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501253

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Infiltration Cellular	Mononuclear CI, Minimal
* Testes	Germinal Epith	Hematopoietic Cell Proliferation	Minimal
Note: One testicle affected.		Atrophy	Moderate
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 4                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 732  
**DOSE:** 0    MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 0501254

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Mild
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Inflammation	Mild
		[ Hepatocellular Adenoma TGLS = 2-11 ]	
		[ Hepatocellular Carcinoma TGLS = 1-10 ]	
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Inflammation	Minimal
		[ Hyperplasia TGLS = 3-5+12 ]	
* Stomach, Glandular	Glands	Cyst	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501254

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<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
	Glands	Hyperplasia	Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501255

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
Coagulating Gland		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Mild
[ Clear Cell Focus TGLS = 1-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 6                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 732  
**DOSE:** 0    MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 0501256

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-11 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

**PRIMARY CAUSE OF DEATH**                      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 7                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 549  
**DOSE:** 0    MG/KG                      **DISP:** Natural Death                      **HISTO:** 0501257

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* 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	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Inflammation	Minimal
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 8                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 732  
**DOSE:** 0    MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 0501258

**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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Mild
		Inflammation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH                      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 9                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 732  
**DOSE:** 0    MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 0501259

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Mild
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
	[ Clear Cell Focus TGLS = 2-11 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 1-10 ]		
* Lymph Node, Mandibular		Atrophy	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501259

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 0501260

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hemangiosarcoma	Metastatic (Spleen)
* Epididymis		Inflammation	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Metaplasia	Osseous, Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Moderate
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
[ Fatty Change TGLS = 6-13 ]			
[ Hepatocellular Adenoma TGLS = 5-11 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 7-11 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2,3-4+10 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 10	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 640
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501260

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach [ Hyperplasia TGLS = 8-14 ]	Hyperplasia Inflammation	Squamous, Mild Mild
* Thymus	Atrophy	Moderate
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501261

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Mild
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Spleen		Hyperplasia	Lymphoid, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 11	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501261

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Atrophy	Mild
Tooth	Dysplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 12

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501262

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
		Inflammation	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
	Pulp	Inflammation	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501263

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Thyroid Gland		Infiltration Cellular	Mononuclear CI, Minimal
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 14

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 714

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501264

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Esophagus		Inflammation	Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-10 ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Plasma Cell, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

**PRIMARY CAUSE OF DEATH**

- Harderian Gland Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 14

**TRT#:** 1

**DOSE:** 0 MG/KG

**SEX:** Male

**DISP:** Moribund Sacrifice

**DAY ON TEST:** 714

**HISTO:** 0501264

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 15

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Medulla [ Pheochromocytoma Benign TGLS = 2-6 ]	Pheochromocytoma Benign	
* Epididymis	Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Metaplasia	Osseous, Mild
	Mineralization	Minimal
	Nephropathy	Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 1-10 ]	Hepatocellular Carcinoma	
* Preputial Gland	Infiltration Cellular	Mononuclear CI, Minimal
* Prostate	Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Mineralization	Minimal
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 16

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 477

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 0501266

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Lymphoma Malignant	
* Heart		Mineralization	Mild
* Intestine Large, Cecum		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Accumulation, Hyaline Droplet	Mild
	Pelvis	Inflammation	Mild
		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
		Tension Lipidosis	
* Lung		Alveolar/Bronchiolar Adenoma	
		Lymphoma Malignant	
Lymph Node	Deep Cervical	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	

[ Lymphoma Malignant TGLS = 2-11 ]  
 [ Lymphoma Malignant TGLS = 4-13 ]  
 [ Lymphoma Malignant TGLS = 5-14 ]  
 [ Lymphoma Malignant TGLS = 6-15 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 477
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501266

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lymphoma Malignant TGLS = 7-16 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-10 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 8-17 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-12 ]			
* Thymus		Lymphoma Malignant	

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

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 17	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501267

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 6-14 ]

[ Squamous Cell Carcinoma TGLS = 4-13 ]

* Stomach, Glandular	Glands	Cyst	Minimal
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 547

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501268

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* 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	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Inflammation	Minimal
		Pigmentation	Mild

Note: Steins stain for bile pigments was negative, and Gomoris iron stain was positive.  
 [ Hepatocellular Carcinoma TGLS = 1-10 ]

* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked

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

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 535

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501269

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Nephropathy	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Necrosis	Minimal
			[ Hepatocellular Adenoma TGLS = 5-11 ]
			[ Hepatocellular Carcinoma TGLS = 3,4-10+12 ]
* Lung		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
Mesentery		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
			[ Rhabdomyosarcoma TGLS = 1-10 ]
* Pancreas		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
Skeletal Muscle		Rhabdomyosarcoma	
			[ Rhabdomyosarcoma TGLS = 2-11 ]
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 20

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501270

**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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney		Cyst	Mild
		Infarct	Moderate
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
Tooth		Dysplasia	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501271

**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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Eye	Cornea	Inflammation	Mild
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
	[ Adenoma TGLS = 1-9 ]		
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
	[ Hepatocellular Adenoma TGLS = 3,5-10+12 ]	Mixed Cell Focus	
	[ Mixed Cell Focus TGLS = 4-11 ]		
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 21	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501271

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 22	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501272

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Gallbladder		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Inflammation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 1-10 ]		
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 479

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 0501273

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 2-11 ]			
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 24	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501274

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
		Tension Lipidosis	
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Nose	Respirat Epith	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 24

**TRT#:** 1

**DOSE:** 0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0501274

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501275

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501276

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Cyst	Mild
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-11 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[ Alveolar/Bronchiolar Adenoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 27

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501277

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Moderate
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Mixed Cell Focus	
	[ Mixed Cell Focus TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 573

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 0501278

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Atrophy	Mild
	Red Pulp	Atrophy	Mild
* Thymus		Atrophy	Marked

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

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501279

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Eye	* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Esophagus		Inflammation	Minimal
* Harderian Gland		Adenoma Infiltration Cellular	Mononuclear CI, Minimal
	[ Adenoma TGLS = 1-9 ]		
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization Nephropathy	Minimal Minimal
* Liver		Clear Cell Focus Fatty Change Hepatocellular Adenoma Mixed Cell Focus	Diffuse, Minimal
	[ Hepatocellular Adenoma TGLS = 2-10 ]		
	[ Mixed Cell Focus TGLS = 3-11 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 29	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501279

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Mineralization	Minimal
Tooth	Dysplasia	Moderate
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501280

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Tension Lipidosis	
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose	Olfactory Epi	Degeneration	Moderate
	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Cyst	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 31

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 646

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501281

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Mild
		Cyst	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
		Tension Lipidosis	
		[ Eosinophilic Focus TGLS = 3-11 ]	
		[ Hepatocellular Adenoma TGLS = 1,2-10 ]	
* Nose	Nerve	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 31	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 646
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501281

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth	Dysplasia	Marked
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

---

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

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 32

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 695

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501282

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular Zona Fasciata	Hyperplasia Hyperplasia	Mild Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland	Epithelium	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
	Papilla	Necrosis	Moderate
* Liver		Basophilic Focus Fatty Change Hepatocellular Adenoma Mixed Cell Focus Tension Lipidosis	Diffuse, Minimal
		[ Hepatocellular Adenoma TGLS = 2-10 ] [ Mixed Cell Focus TGLS = 3-11 ]	
* Nose	Respirat Epith Respirat Epith	Hyperplasia Hyperplasia	Minimal Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 695
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501282

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Thymus	Atrophy	Marked
Tooth	Dysplasia	Moderate

---

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

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 33

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501283

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Mild
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Heart		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion Metaplasia Mineralization Nephropathy	Minimal Osseous, Mild Minimal Minimal
* Liver		Clear Cell Focus Eosinophilic Focus	
		[ Clear Cell Focus TGLS = 2-11 ]	
* Lung		Alveolar/Bronchiolar Adenoma	
		[ Alveolar/Bronchiolar Adenoma TGLS = 1-10 ]	
* Nose	Olfactory Epi Respirat Epith	Degeneration Hyperplasia	Mild Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 33

**TRT#:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501283

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth  
\* Urinary Bladder

Dysplasia  
Infiltration Cellular

Marked  
Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 34

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501284

**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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	
		Inflammation	Minimal
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501285

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 36

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501286

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Gallbladder	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Glomerulus	Congestion Nephropathy	Minimal Mild
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma Inflammation Mixed Cell Focus	Minimal
		[ Hepatocellular Adenoma TGLS = 1-10 ]	
		[ Hepatocellular Carcinoma TGLS = 2-11 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 36

**TRT#:** 1

**DOSE:** 0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0501286

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 37

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501287

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Eye			
Note: Optic nerves in block two.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
		Hepatocellular Carcinoma	
		Mixed Cell Focus	
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
[ Mixed Cell Focus TGLS = 2-11 ]			
Mesentery	Fat	Necrosis	Moderate
Note: The necrotic fat was mineralized.			
[ Necrosis TGLS = 3-12 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501287

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/22/2014

Time Report Requested: 00:28:20

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501288

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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
[ Clear Cell Focus TGLS = 2-11 ]			
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 39

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501289

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hemangiosarcoma	Metastatic (Uncertain Primary Site)
* Epididymis		Infiltration Cellular	Mononuclear CI, Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Cyst	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		[ Hepatocellular Adenoma TGLS = 2-11 ]	
		[ Hepatocellular Carcinoma TGLS = 3-12 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Mild
		[ Hemangiosarcoma TGLS = 1-10 ]	
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501289

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth	Dysplasia	Mild
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 40

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501290

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Moderate

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 41

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501291

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Mild
		Cyst	Mild
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Hepatocellular Adenoma	
		Inflammation	Minimal
		Pigmentation	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 41

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501291

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 42	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 331
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501292

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

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**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 43

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501293

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
[ Adenoma TGLS = 1-9 ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 44

**TRT#:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501294

**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	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Carcinoma	
		Inflammation	Minimal
		Mixed Cell Focus	
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
[ Mixed Cell Focus TGLS = 2-11 ]			
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Moderate
[ Hemorrhage TGLS = 4-3 ]			
[ Hyperplasia TGLS = 4-3 ]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 44	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501294

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth		Dysplasia	Marked
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 45

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501295

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Mild
* Harderian Gland		Carcinoma	
		Infiltration Cellular	Mononuclear CI, Minimal
		[ Carcinoma TGLS = 1-9 ]	
* Intestine Small, Ileum		Hemangiosarcoma	
		[ Hemangiosarcoma TGLS = 3-11 ]	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Mixed Cell Focus	
		[ Hepatocellular Adenoma TGLS = 2-10 ]	
		[ Mixed Cell Focus TGLS = 4-12 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501295

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth	Dysplasia	Mild
<b>PRIMARY CAUSE OF DEATH</b>	-	

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501296

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
Note: One adrenal missing.			
* Bone Marrow		Myelofibrosis	Mild
* Epididymis		Infiltration Cellular	Mononuclear Cl, Mild
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Intestine Small, Ileum	Epithelium	Hyperplasia	Mild
		Hyperplasia	Lymphoid, Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatoblastoma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Inflammation	Minimal
		Mixed Cell Focus	

[ Hepatoblastoma TGLS = 1-10 ]  
 [ Hepatocellular Adenoma TGLS = 3-12 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 46	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501296

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatocellular Carcinoma TGLS = 2-11 ]

[ Mixed Cell Focus TGLS = 4-12 ]

* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland		Cyst	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 47

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501297

**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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Preputial Gland		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 48

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501298

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Moderate
		Infiltration Cellular	Mononuclear CI, Minimal
[ Atrophy TGLS = 1-5 ]			
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 641
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501299

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Minimal
		Nephropathy	Mild

Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.

[ Nephropathy TGLS = 2-4 ]

* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Carcinoma	
		Hepatodiaphragmatic Nodule	
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
		Pigmentation	Minimal

[ Hepatocellular Carcinoma TGLS = 1-10 ]

[ Hepatodiaphragmatic Nodule TGLS = 4-11 ]

* Preputial Gland	Duct	Ectasia	Mild
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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 641
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501299

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Ectasia TGLS = 3-8 ]	Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Thymus	Atrophy	Mild

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

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 50	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501300

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Adenoma	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 51

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 646

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501301

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Mononuclear CI, Mild
* Harderian Gland	Epithelium	Hyperplasia	Moderate
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	
		Hypertrophy	Minimal
		Inflammation	Minimal
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Marked

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

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 52

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501302

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Mild
		Fatty Change	Diffuse, Minimal
		Mixed Cell Focus	
	[ Clear Cell Focus TGLS = 1-4 ]		
	[ Fatty Change TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 53	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 59
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Dosing Accident	<b>HISTO:</b> 0501303

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Lung	Serosa	Inflammation	Moderate
[ Inflammation TGLS = 1-3 ]			
* Thymus		Necrosis	Lymphoid, Moderate

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 55

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501305

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Mild
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501305

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth	Dysplasia	Mild
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 56

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 428

**DOSE:** 37.5 MG/KG

**DISP:** Accidentally Killed

**HISTO:** 0501306

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* 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
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* 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**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Fracture	
Note: There appeared microscopically to be a fracture of the wall of the tibia with hemorrhage in the surrounding muscle. [ Fracture TGLS = 1-11 ]			
* Harderian Gland	Epithelium	Hyperplasia	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-10 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Bone Fracture

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 57

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 709

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501307

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Pituitary Gland
* Skin	* Testes	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Adren Cortex  
 Note: One adrenal missing.

* Epididymis		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Harderian Gland		Lymphoma Malignant	
* Heart		Mineralization	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 3-4 ]		
* Liver		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 2-3+4+5+11 ]	Necrosis	Mild
* Lung		Lymphoma Malignant	
Lymph Node	Bronchial	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 4-12 ]		
	[ Lymphoma Malignant TGLS = 7-10 ]		
	[ Lymphoma Malignant TGLS = 5-13 ]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 8-6 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 57	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 709
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501307

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 6-14 ]		Lymphoma Malignant	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Lymphoma Malignant	
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
* Spleen [ Lymphoma Malignant TGLS = 1-10 ]		Lymphoma Malignant	
* Stomach, Forestomach		Hyperplasia Inflammation Lymphoma Malignant Ulcer	Squamous, Moderate Mild  Mild
* Stomach, Glandular		Lymphoma Malignant	
* Thymus Note: Thymus was probably involved with the tumor as well as mediastinal lymph node.		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	

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

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 58

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501308

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 3-12 ]		
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 58

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501308

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 59

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501309

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* 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	* Lung	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Lymph Node, Mandibular		Atrophy	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 59

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501309

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 60

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501310

**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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 61

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 444

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501311

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Liver	Centrilobular	Degeneration	Mild
		Hepatocellular Adenoma	Multiple
		Tension Lipidosis	
	[ Hepatocellular Adenoma TGLS = 2-11 ]		
* Lung		Inflammation	Minimal
		Sarcoma	Metastatic (Skin)
	[ Sarcoma TGLS = 3,4-12+13 ]		
* Skin		Sarcoma	
	[ Sarcoma TGLS = 1-10 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Minimal
* Testes	Germinal Epith	Atrophy	Mild
		Mineralization	Minimal
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- Skin Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 62

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501312

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 1,2,3-10+11+12 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501313

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Moderate
		Mixed Cell Focus	
		[ Clear Cell Focus TGLS = 2-11 ]	
		[ Eosinophilic Focus TGLS = 2-11 ]	
		[ Fatty Change TGLS = 1-10 ]	
		[ Mixed Cell Focus TGLS = 2-11 ]	
* Nose	Respirat Epith	Hyperplasia	Mild
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501313

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth

Dysplasia

Minimal

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 64

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501314

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1,3,4,5-10+12+13+14 ]		
	[ Mixed Cell Focus TGLS = 2-11 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 6-15 ]		
* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 64

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501314

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 65

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501315

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Skin	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 3-10 ]			
[ Hepatocellular Carcinoma TGLS = 4-11 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
[ Alveolar/Bronchiolar Carcinoma TGLS = 5-12 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501315

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
[ Hyperplasia TGLS = 6-13 ]			
* Stomach, Glandular	Glands	Cyst	Minimal
	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 66

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 721

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501316

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Necrosis	Mild
[ Eosinophilic Focus TGLS = 1-10 ]			
[ Hepatocellular Adenoma TGLS = 2,3,4,5-11+12+13+14 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hemangiosarcoma	
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 66	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 721
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501316

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 6-14 ]

* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Mild
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH	- Liver	Hepatocellular Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Liver	Necrosis

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 67

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501317

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Cyst	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Moderate

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 67

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501317

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 68

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 693

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501318

**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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1,6-10+14 ]		
* Lung		Hemangiosarcoma	Metastatic (Skin)
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Serosa	Inflammation	Mild
		Inflammation	Moderate
	Note: The lung was adhered to the thoracic wall due to a hemangiosarcoma.		
	[ Hemangiosarcoma TGLS = 3-11 ]		
	[ Inflammation TGLS = 5-13 ]		
* Nose	Nerve	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 693
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501318

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
		Polyp, Inflammatory	Mild
* Pancreas		Cytoplasmic Alteration	Focal, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Skin		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 4-12 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH	- Skin Hemangiosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Lung Hemangiosarcoma Skin

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 69

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501319

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Spleen	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Metaplasia	Osseous, Mild
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
	[ Mixed Cell Focus TGLS = 2-11 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 69

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501319

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 648

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501320

**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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-11 ]		
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mandibular		Atrophy	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 71

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 646

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501321

**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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Mixed Cell Focus	
		Necrosis	Minimal
		[ Hepatocellular Carcinoma TGLS = 1,2-10+11 ]	
		[ Mixed Cell Focus TGLS = 4-13 ]	
* Lung	Alveolus	Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Atrophy	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 71	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 646
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501321

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach [ Hyperplasia TGLS = 3-12 ]	Hyperplasia Inflammation	Squamous, Mild Mild
* Thymus	Atrophy	Moderate
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501322

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth

Dysplasia

Moderate

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 73

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501323

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
	Centrilobular	Vacuolization Cytoplasmic	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		[ Alveolar/Bronchiolar Adenoma TGLS = 2-11 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Cytoplasmic Alteration	Focal, Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Subcut Tiss	Hemorrhage	Mild
		[ Hemorrhage TGLS = 1-10 ]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 73

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501323

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 74

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501324

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular Subcapsular	Adenoma Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain	Arteriole Meninges	Infiltration Cellular Infiltration Cellular	Lymphoid, Minimal Lymphoid, Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Adenoma Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion Glomerulopathy Nephropathy	Moderate Hyaline, Minimal Minimal
* Liver		Clear Cell Focus Eosinophilic Focus Hepatocellular Carcinoma Inflammation	Mild
	[ Hepatocellular Carcinoma TGLS = 2-10 ]		
* Nose	Respirat Epith Olfactory Epi	Hyperplasia Metaplasia	Minimal Minimal
* Preputial Gland		Inflammation	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501324

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Inflammation TGLS = 1-8 ]		
* Prostate	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Hyperplasia	Squamous, Moderate
	Inflammation	Mild
[ Hyperplasia TGLS = 3-11 ]		
* Thymus	Atrophy	Mild
Tooth	Dysplasia	Minimal
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 75

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501325

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Cyst	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1,2,3-10+11 ]		
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Moderate

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 76

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501326

**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
* 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 Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Histiocytic Sarcoma	
		Inflammation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 77

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501327

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
		[ Hepatocellular Adenoma TGLS = 3-11 ]	
		[ Mixed Cell Focus TGLS = 2-10 ]	
* Nose	Glands	Cyst	Mild
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland	Duct	Ectasia	Mild
		Infiltration Cellular	Mononuclear Cl, Mild
		[ Ectasia TGLS = 1-8 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501327

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Mild
Tooth	Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 78

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501328

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Cyst	Moderate
		Infiltration Cellular	Mononuclear Cl, Minimal
		Mineralization	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Necrosis	Minimal
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
		Polyp, Inflammatory	Moderate
* Preputial Gland		Inflammation	Moderate
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 78	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501328

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Testes		Cyst	Moderate
		Mineralization	Mild
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Moderate
	Pulp	Inflammation	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501329

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Hyperplasia	Lymphoid, Mild
Tooth	Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 80

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501330

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular Subcapsular	Adenoma Hyperplasia Hypertrophy Infiltration Cellular Infiltration Cellular Hyperplasia Mineralization Nephropathy Basophilic Focus Clear Cell Focus Eosinophilic Focus Fatty Change Hepatocellular Adenoma Histiocytic Sarcoma Inflammation Mixed Cell Focus Tension Lipidosis	Mild Minimal Mononuclear Cl, Minimal Mononuclear Cl, Minimal Mild Minimal Minimal
* Epididymis			
* Harderian Gland			
* Islets, Pancreatic			
* Kidney			
* Liver	Serosa		Focal, Minimal Multiple Chronic Active, Moderate

[ Hepatocellular Adenoma TGLS = 2,3-11+12 ]

[ Inflammation TGLS = 1-10 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 80	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501330

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Mixed Cell Focus TGLS = 6-15 ]			
Lymph Node	Mediastinal	Histiocytic Sarcoma	
Note: Mediastinal lymph node was on slide 14 (TGL 5) as well as the thymus.			
[ Histiocytic Sarcoma TGLS = 5-14 ]			
* Nose	Respirat Epith	Hyperplasia	Mild
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 4-13 ]			
* Thymus		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 5-14 ]			
Tooth		Dysplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 81

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501331

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 6-3 ]

Tooth

Dysplasia

Mild

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 82

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501332

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 83

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501333

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		[ Hepatocellular Adenoma TGLS = 2-11 ]	
		[ Hepatocellular Carcinoma TGLS = 1-10 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH**                      -

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 85

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501335

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Mild
* Eye			
Note: Both optic nerves missing.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Mineralization	Minimal
Tooth		Dysplasia	Moderate

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

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501336

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 87

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501337

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Mild
		Inflammation	Minimal
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-11 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 88

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501338

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 2-10 ]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma	Multiple
		Hyperplasia	Moderate
		Inflammation	Moderate
[ Alveolar/Bronchiolar Carcinoma TGLS = 3,4-11+12 ]			
[ Hyperplasia TGLS = 5-11 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501338

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Atrophy	Moderate
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 89	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501339

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth		Dysplasia	Minimal
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 90

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 693

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501340

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Sarcoma	Metastatic (Mesentery)
Coagulating Gland		Sarcoma	Metastatic (Mesentery)
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
		Sarcoma	Metastatic (Mesentery)
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Intestine Small, Jejunum		Sarcoma	Metastatic (Mesentery)
Note: The tumor was attached to the serosa of the jejunum. [ Sarcoma TGLS = 5-14 ]			
* Kidney		Mineralization	Mild
* Liver		Hepatocellular Adenoma	
		Necrosis	Mild
		Sarcoma	Metastatic (Mesentery)
Note: Numerous leukocytes were present in the sinusoids of the liver. [ Sarcoma TGLS = 4,6-3+11+13 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
Note: Numerous leukocytes were present in vessels. [ Alveolar/Bronchiolar Adenoma TGLS = 1-10 ]			
Lymph Node	Mediastinal	Sarcoma	Metastatic (Mesentery)
Mesentery		Sarcoma	
Note: The sarcoma was attached to what appeared to be a necrotic nodule of hepatocytes.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 693
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501340

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Sarcoma TGLS = 3-12 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Sarcoma	Metastatic (Mesentery)
[ Sarcoma TGLS = 2-11 ]			
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Sarcoma	Metastatic (Mesentery)
* Seminal Vesicle		Sarcoma	Metastatic (Mesentery)
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Inflammation	Minimal
		Ulcer	Minimal
* Thymus		Atrophy	Marked
Tooth		Dysplasia	Minimal

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**PRIMARY CAUSE OF DEATH** - Mesentery Sarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 91

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501341

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 92

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501342

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
		Necrosis	Minimal
<p>Note: The heparoblastoma arose in a hepatocellular adenoma (slide 3).  [ Hepatocellular Adenoma TGLS = 1,2,3,4,5,6-10+11+12+13 ]  [ Mixed Cell Focus TGLS = 6-13 ]</p>			
* Nose	Respirat Epith	Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 92

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501342

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 93

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 690

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501343

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Intestine Large, Cecum		Hemorrhage	Moderate
Note: The blood was primarily on the mucosal surface of the cecum.			
* Intestine Small, Ileum		Inflammation	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Tension Lipidosis	
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 93	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 690
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501343

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach [ Squamous Cell Papilloma TGLS = 2-11 ]	Squamous Cell Papilloma	
* Thymus	Necrosis	Lymphoid, Mild

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

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 94

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501344

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Testes	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 3-12 ]		
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
	[ Hyperplasia TGLS = 4-13 ]		
* Stomach, Glandular	Glands	Cyst	Minimal
	Glands	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 94

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501344

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 95	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501345

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands	Infiltration Cellular	Mononuclear CI, Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Hyperplasia	Squamous, Moderate
	Inflammation	Mild
	Ulcer	Minimal
[ Hyperplasia TGLS = 3-12 ]		
* Thymus	Atrophy	Marked
Tooth	Dysplasia	Minimal
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 96

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501346

**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, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Centrilobular, Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 2-10 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Plasma Cell, Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 96

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501346

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Minimal

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 97

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501347

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 98

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501348

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
<p>Note: Basement membrane, trichrome, and PAS stains were run. PAS staining was increased in glomeruli. The other stains were like control. Congo Red was negative.</p>			
* Liver		Hepatoblastoma	
		Hepatocellular Carcinoma	
	[ Hepatoblastoma TGLS = 2-11 ]		
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 99

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 652

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501349

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* 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
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatoblastoma	
[ Hepatoblastoma TGLS = 3-10 ]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma	
	Alveolus	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Minimal
Note: Eosinophilic crystals were present in alveoli.			
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-11 ]			
* Preputial Gland		Inflammation	Moderate
Note: The inflammation was granulomatous and cholesterol clefts were present.			
[ Inflammation TGLS = 5-8 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 99	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 652
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501349

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth		Dysplasia	Minimal
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PRIMARY CAUSE OF DEATH	- Liver	Hepatoblastoma	
CONTRIBUTORY CAUSE OF DEATH	- Lung	Alveolar/Bronchiolar Carcinoma	

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 100      **TRT#:** 3      **SEX:** Male      **DAY ON TEST:** 732  
**DOSE:** 37.5 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501350

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Osteosclerosis	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 101

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501351

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Mild
	[ Basophilic Focus TGLS = 1-10 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 102

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501352

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Epididymis		Infiltration Cellular	Mononuclear CI, Mild
* Harderian Gland		Adenoma	
		[ Adenoma TGLS = 1-9 ]	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Vein	Intravascular Hepatocyte	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 102	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501352

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Eosinophilic Focus TGLS = 5-13 ]  
[ Hepatoblastoma TGLS = 6-10 ]  
[ Hepatocellular Adenoma TGLS = 3,4-11+12 ]  
[ Hepatocellular Carcinoma TGLS = 2-10 ]

* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 103

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501353

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
		Mixed Cell Focus	
		Necrosis	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Carcinoma	
	[ Carcinoma TGLS = 1-3 ]		
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 104

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501354

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-11 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Mild
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-12 ]		
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Minimal
	[ Hyperplasia TGLS = 4-13 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 104

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501354

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Minimal
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 105

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501355

**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
* 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	Subcapsular Subcapsular	Adenoma Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]		
* Nose	Olfactory Epi Respirat Epith	Degeneration Hyperplasia	Minimal Minimal
* Stomach, Forestomach		Hyperplasia Inflammation	Squamous, Mild Mild
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 106

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501356

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland	Epithelium	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
		[ Hepatocellular Adenoma TGLS = 2,3,4,5-3+10+11+12 ]	
		[ Hepatocellular Carcinoma TGLS = 1-10 ]	
* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 106

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731

**HISTO:** 0501356

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Prostate	Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Hyperplasia	Squamous, Mild
	Inflammation	Moderate
	Ulcer	Moderate
[ Hyperplasia TGLS = 6-13 ]		
* Thymus	Atrophy	Moderate
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 107

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501357

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Heart		Hemangiosarcoma	Metastatic (Spleen)
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
		[ Eosinophilic Focus TGLS = 8,10-3+11 ]	
		[ Hepatocellular Adenoma TGLS = 5,9-12+14 ]	
		[ Hepatocellular Carcinoma TGLS = 4-12 ]	
* Lung	Alveolus	Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Moderate
		[ Alveolar/Bronchiolar Carcinoma TGLS = 2-11 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 107	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501357

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Infiltration Cellular TGLS = 6,7-13 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Skin		Inflammation	Moderate
		Ulcer	Moderate
[ Inflammation TGLS = 1-10 ]			
[ Ulcer TGLS = 1-10 ]			
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Minimal
[ Hemangiosarcoma TGLS = 3-11 ]			
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Minimal
[ Hyperplasia TGLS = 11-15 ]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Germinal Epith	Atrophy	Moderate
		Mineralization	Mild
* Thymus		Atrophy	Marked
Tooth		Dysplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 108

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501358

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* 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	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hemangiosarcoma	
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		[ Eosinophilic Focus TGLS = 3-11 ]	
		[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Cytoplasmic Alteration	Focal, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
* Preputial Gland		Inflammation	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 108	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501358

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Hyperplasia	Squamous, Mild
	Inflammation	Minimal
[ Hyperplasia TGLS = 4-12 ]		
* Thymus	Atrophy	Mild
Tooth	Dysplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 109

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501359

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Eye			
Note: Both optic nerves missing.			
* Kidney		Cyst	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
[ Eosinophilic Focus TGLS = 3-11 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Moderate
[ Ectasia TGLS = 2-8 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Epidermis	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 109

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501359

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hyperplasia TGLS = 1-10 ]

* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Hyperplasia	Squamous, Minimal
	Inflammation	Minimal
Tooth	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 110

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501360

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 111      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 588  
**DOSE:** 75 MG/KG      **DISP:** Natural Death      **HISTO:** 0501361

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Carcinoma	
		Inflammation	Mild
		Necrosis	Mild
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Moderate

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

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501362

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
		Tension Lipidosis	
		[ Hepatocellular Adenoma TGLS = 1-10 ]	
		[ Mixed Cell Focus TGLS = 2,3-11+12 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 112

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501362

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Atrophy	Mild
Tooth	Dysplasia	Mild
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 113      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 731  
**DOSE:** 75 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501363

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 5-13 ]			
* Lymph Node, Mesenteric		Atrophy	Moderate
* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 114      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 639  
**DOSE:** 75 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 0501364

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	Penis	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Mineralization	Minimal
* Kidney		Carcinoma	Metastatic (Thyroid Gland)
		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Hypertrophy	Minimal
* Lung		Carcinoma	Metastatic (Thyroid Gland)
* Lymph Node, Mandibular		Atrophy	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Red Pulp	Atrophy	Mild
	[ Atrophy TGLS = 3-4 ]		
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicular Cel	Carcinoma	
	[ Carcinoma TGLS = 1-10 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** - Thyroid Gland Follicular Cel Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 115

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501365

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 1-10 ]		
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 2,3-11+12 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
Tooth		Dysplasia	Marked

**PRIMARY CAUSE OF DEATH**                      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 116

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 646

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501366

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 1,2-10+11 ]	Hypertrophy	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mandibular		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 116

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 646

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501366

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 117

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501367

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Tooth		Dysplasia	Moderate
	Pulp	Inflammation	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 118

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501368

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Mild
<p>Note: Basement membrane, trichrome, and PAS stains were run. Trichrome staining was increased in glomeruli. The other stains were like control. Congo Red negative.</p>			
* Liver		Hepatocellular Carcinoma	
		Inflammation	Minimal
		Pigmentation	Minimal
<p>[ Hepatocellular Carcinoma TGLS = 1-10 ]</p>			
* Nose	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild

[ Hyperplasia TGLS = 2-11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 118

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501368

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Germinal Epith	Atrophy	Minimal
Tooth		Dysplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 119

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501369

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1,2,3,4-10+11+12+13 ]		
* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 119

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501369

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 120

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501370

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Vein	Intravascular Hepatocyte	Minimal
	[ Clear Cell Focus TGLS = 3-10 ]		
	[ Hepatocellular Adenoma TGLS = 2,5,6-11+13+14 ]		
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 120

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501370

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Hyperplasia	Squamous, Mild
	Inflammation	Mild
	Ulcer	Mild
[ Hyperplasia TGLS = 4-12 ]		
Tooth	Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 121

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501371

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
		Mixed Cell Focus	
	Centrilobular	Vacuolization Cytoplasmic	Mild

[ Clear Cell Focus TGLS = 1-10 ]  
[ Hepatocellular Adenoma TGLS = 1-10 ]  
[ Mixed Cell Focus TGLS = 1-10 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 121

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501371

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose	Respirat Epith	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501372

**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
* Lung	* Lymph Node, Mandibular	* Pancreas	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		[ Cyst TGLS = 2-11 ]	
		[ Hepatocellular Adenoma TGLS = 3-12 ]	
		[ Hepatocellular Carcinoma TGLS = 1-10 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501372

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501373

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
		Hepatocellular Carcinoma	
		Tension Lipidosis	
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
Tooth		Dysplasia	Mild

**PRIMARY CAUSE OF DEATH**                      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501374

**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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Cyst	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	

[ Clear Cell Focus TGLS = 5-3+5+13 ]

[ Fatty Change TGLS = 5-13 ]

[ Hepatocellular Adenoma TGLS = 1,2,3-10+11+12 ]

[ Mixed Cell Focus TGLS = 4,7-11+12 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 124

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501374

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 6-14 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 125

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501375

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Adenoma	
		Degeneration	Cystic, Mild
	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Metaplasia	Osseous, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hemangioma	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 125	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501375

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Clear Cell Focus TGLS = 4-12 ]			
[ Hepatocellular Adenoma TGLS = 2,3,5-10+11+13 ]			
[ Hepatocellular Carcinoma TGLS = 3-11 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-10 ]			
* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Inflammation	Minimal
		Ulcer	Minimal
* Thymus		Atrophy	Marked
Tooth		Dysplasia	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501376

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
		Pigmentation	Minimal
		Tension Lipidosis	
	[ Hepatocellular Adenoma TGLS = 1,2-10 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-11 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501376

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501377

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* 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	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
<p>Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.</p>			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
<p>[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]</p>			
* Nose		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Inflammation	Minimal
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 127

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0501377

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 128

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501378

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Eye			
Note: Optic nerve in block two.			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 1-10 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Minimal
[ Hyperplasia TGLS = 2-11 ]			
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 128	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501378

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth	Dysplasia	Mild
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 129

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501379

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Inflammation	Mild
		Necrosis	Mild
		[ Hepatocellular Adenoma TGLS = 1,4-10+13 ]	
		[ Hepatocellular Carcinoma TGLS = 2-11 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 129	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501379

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach [ Hyperplasia TGLS = 3-12 ]	Hyperplasia Inflammation	Squamous, Moderate Mild
* Thymus Tooth	Atrophy Dysplasia	Mild Mild

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 130

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Moribund Sacrifice

**DAY ON TEST:** 695

**HISTO:** 0501380

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hyperplasia TGLS = 3-12 ]	Inflammation	Mild
* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Mild
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** - Liver Hepatoblastoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 131

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 597  
**HISTO:** 0501381

**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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Eye	Cornea	Inflammation	Mild
Note: One eye missing.			
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Mild
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[ Fatty Change TGLS = 3-5 ]			
[ Mixed Cell Focus TGLS = 2-10 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH** - Harderian Gland Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 131

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Moribund Sacrifice

**DAY ON TEST:** 597

**HISTO:** 0501381

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 132

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501382

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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	* Pancreas	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Mild
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Cyst	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
<p>Note: Basement membrane, trichrome, and PAS stains were run. Trichrome staining was increased in glomeruli. The other stains were like control. Congo Red negative.</p>			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Fatty Change	Diffuse, Minimal
		Hepatoblastoma	Multiple
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	

Note: The hepatoblastomas arose in hepatocellular adenomas.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 132

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501382

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Eosinophilic Focus TGLS = 4-10 ]

[ Hepatoblastoma TGLS = 2-11 ]

[ Hepatocellular Adenoma TGLS = 1,2,3,5,6-10+11+12 ]

[ Mixed Cell Focus TGLS = 4,7-10+13 ]

\* Lung

Alveolar/Bronchiolar Adenoma

\* Nose

Respirat Epith

Hyperplasia

Mild

\* Prostate

Infiltration Cellular

Mononuclear CI, Mild

\* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

\* Stomach, Forestomach

Hyperplasia

Squamous, Moderate

Inflammation

Minimal

Ulcer

Mild

[ Hyperplasia TGLS = 8-14 ]

\* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 133

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501383

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
[ Adenoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
[ Clear Cell Focus TGLS = 4-10 ]			
[ Hepatocellular Adenoma TGLS = 3-11 ]			
[ Hepatocellular Carcinoma TGLS = 2-10 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 133

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501383

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Stomach, Forestomach

Hyperplasia

Squamous, Minimal

Inflammation

Minimal

Tooth

Dysplasia

Minimal

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 654

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501384

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
	[ Nephropathy TGLS = 2-4 ]		
* Liver		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	[ Hepatoblastoma TGLS = 1-10 ]		
	[ Hepatocellular Adenoma TGLS = 3,4-11+12 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Minimal
	[ Hyperplasia TGLS = 5-13 ]		
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 654

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501384

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Liver Hepatoblastoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 135

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501385

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Granuloma Sperm	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Moderate
	[ Nephropathy TGLS = 1-4 ]		
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 3-11 ]		
	[ Hepatocellular Carcinoma TGLS = 2-10 ]		
* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 135	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501385

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Hyperplasia	Squamous, Mild
	Inflammation	Mild
[ Hyperplasia TGLS = 4-12 ]		
* Thymus	Atrophy	Mild
Tooth	Dysplasia	Mild
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501386

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
		[ Hepatocellular Adenoma TGLS = 1-10 ]	
		[ Mixed Cell Focus TGLS = 2-11 ]	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 136

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731

**HISTO:** 0501386

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/22/2014

Time Report Requested: 00:28:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501387

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Vein	Intravascular Hepatocyte	Minimal
		Tension Lipidosis	
	[ Eosinophilic Focus TGLS = 1-10 ]		
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Marked
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Moderate
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 137	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501387

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Hyperplasia	Squamous, Minimal
* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 138

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501388

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* 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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Esophagus		Inflammation	Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-9 ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
[ Hyperplasia TGLS = 3-11 ]			
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 138

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731

**HISTO:** 0501388

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 139

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 0501389

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Tension Lipidosis	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland	Duct	Ectasia	Mild
			[ Ectasia TGLS = 1-8 ]
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 140

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501390

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization Nephropathy	Minimal Minimal
* Liver		Clear Cell Focus Eosinophilic Focus Fatty Change Hepatoblastoma Hepatocellular Adenoma Inflammation Necrosis	  Diffuse, Minimal  Multiple Minimal Minimal

Note: The hepatoblastomas arose in hepatocellular adenomas.  
 [ Hepatoblastoma TGLS = 1-10 ]  
 [ Hepatocellular Adenoma TGLS = 2,4,5-11+13 ]

* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 140	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501390

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Hyperplasia	Squamous, Moderate
	Inflammation	Mild
	Ulcer	Mild
[ Hyperplasia TGLS = 3-12 ]		
* Thymus	Atrophy	Mild
Tooth	Dysplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501391

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
		Inflammation	Moderate
		Ulcer	Moderate
	[ Hyperplasia TGLS = 2-11 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501391

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501392

**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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 143

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
		Hemangioma	
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
		Tension Lipidosis	

[ Hemangioma TGLS = 3-12 ]  
 [ Hepatocellular Adenoma TGLS = 1,2-10+11 ]  
 [ Mixed Cell Focus TGLS = 4-10 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 143

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501393

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose	Respirat Epith	Hyperplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 144

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 668

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501394

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Metaplasia	Osseous, Mild
		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	
	[ Hepatocellular Carcinoma TGLS = 1,3-10 ]		
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Prostate		Inflammation	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
Tooth		Dysplasia	Mild
	Peridont Tiss	Inflammation	Moderate
Urethra	Transit Epithe	Carcinoma	

Note: The tumor of the transitional epithelium of the urethra caused urinary tract obstruction with dilatation of the urinary bladder.

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 144

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 668

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501394

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urin Bladder

Note: The urinary bladder was dilated as the result of the urethral tumor. No microscopic correlate was available.

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PRIMARY CAUSE OF DEATH

- Urethra Transit Epithe Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 145

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501395

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 2-10 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Testes	Interstit Cell	Adenoma	
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 145

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0501395

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 146

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Cyst	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Preputial Gland		Inflammation	Moderate
	[ Inflammation TGLS = 1-10 ]		
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 146

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501396

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 147

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 714

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501397

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hepatoblastoma	Metastatic (Liver)
	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Hepatoblastoma	Metastatic (Liver)
		Nephropathy	Moderate
		Pigmentation	Moderate
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver	Bile Duct	Cyst	Moderate
		Hepatoblastoma	Multiple
		Hepatocellular Carcinoma	
[ Cyst TGLS = 9,12-10+17 ]			
[ Hepatoblastoma TGLS = 6,7,10,11,13-10+11+15+16+17+18 ]			
[ Hepatocellular Carcinoma TGLS = 8-10 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatoblastoma	Metastatic (Liver)
		Hepatocellular Carcinoma	Metastatic (Liver)
[ Alveolar/Bronchiolar Adenoma TGLS = 5-14 ]			
[ Hepatoblastoma TGLS = 15-19 ]			
[ Hepatocellular Carcinoma TGLS = 4,15,16-13+19+20 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 147	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 714
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501397

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesentery		Hepatoblastoma	Metastatic (Liver)
	Fat	Necrosis	Moderate
[ Hepatoblastoma TGLS = 1,14-10+18 ]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Hepatoblastoma	Metastatic (Liver)
[ Hepatoblastoma TGLS = 2,3-11+12 ]			
* Preputial Gland	Duct	Ectasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Inflammation	Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH	- Liver	Hepatoblastoma
CONTRIBUTORY CAUSE OF DEATH	- Liver	Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501398

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	Multiple
		Hypertrophy	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
	[ Hepatocellular Carcinoma TGLS = 2-11,3-11 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[ Alveolar/Bronchiolar Carcinoma TGLS = 4-12 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 148

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501398

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hyperplasia TGLS = 5-13 ]	Inflammation	Mild
* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Minimal
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 149

**TRT#:** 5  
**DOSE:** 75 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 0501399

**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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular Subcapsular	Adenoma Hyperplasia Infiltration Cellular Glomerulopathy Mineralization Nephropathy Clear Cell Focus Fatty Change Fatty Change Hepatocellular Adenoma Hypertrophy Tension Lipidosis	Minimal Mononuclear Cl, Minimal Hyaline, Minimal Minimal Minimal Focal, Mild Diffuse, Minimal Multiple Mild
* Harderian Gland			
* Kidney			
* Liver	Centrilobular, Hepatocyte		
			[ Clear Cell Focus TGLS = 2-5+10 ] [ Fatty Change TGLS = 2-10 ] [ Hepatocellular Adenoma TGLS = 2-10 ] [ Hypertrophy TGLS = 1-3,4,5,10 ]
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 149

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0501399

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Prostate	Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach	Hyperplasia	Squamous, Minimal
Tooth	Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 150

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501400

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Necrosis TGLS = 7-13 ]

* Nose	Olfactory Epi Respirat Epith	Degeneration Hyperplasia	Minimal Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia Inflammation	Squamous, Moderate Mild

[ Hyperplasia TGLS = 9-14 ]

* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 151

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501401

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Necrosis	Mild
		Nephropathy	Moderate
<p>Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.</p>			
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocholangiocarcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
	[ Hepatocellular Adenoma TGLS = 5,6-12+13 ]		
	[ Hepatocholangiocarcinoma TGLS = 4-11 ]		
* Lung	Serosa	Hepatocholangiocarcinoma	Metastatic (Liver)
		Hepatocholangiocarcinoma	Metastatic (Liver)

Note: TGL 3 which was entered under serosa of lung was found on the parietal pleura.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 151	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 716
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501401

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatocholangiocarcinoma TGLS = 3-11 ]			
[ Hepatocholangiocarcinoma TGLS = 2-10 ]			
Lymph Node	Mediastinal	Hepatocholangiocarcinoma	Metastatic (Liver)
[ Hepatocholangiocarcinoma TGLS = 7-10 ]			
* Nose	Nerve	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 8-14 ]			
[ Ulcer TGLS = 8-14 ]			
* Thymus		Atrophy	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH** - Liver Hepatocholangiocarcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 152

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501402

**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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
	Bile Duct	Fibrosis	Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	

[ Clear Cell Focus TGLS = 2-11+12 ]

[ Eosinophilic Focus TGLS = 2-11+12 ]

[ Hepatocellular Adenoma TGLS = 1,3,4-10+11+12 ]

[ Mixed Cell Focus TGLS = 2-11 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 152	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501402

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild
	[ Hyperplasia TGLS = 5-13 ]		
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 153

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland	Epithelium	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
	[ Mixed Cell Focus TGLS = 1,2-10+11 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 153

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501403

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas	Cytoplasmic Alteration	Focal, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Atrophy	Mild
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 154

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501404

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Mild

[ Clear Cell Focus TGLS = 2-10 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 154

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501404

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Eosinophilic Focus TGLS = 2-10 ]  
[ Fatty Change TGLS = 2-10 ]  
[ Hepatocellular Adenoma TGLS = 1-5 ]  
[ Mixed Cell Focus TGLS = 2-4+10 ]  
[ Necrosis TGLS = 2-10 ]

\* Nose  
\* Salivary Glands  
\* Spleen  
\* Stomach, Forestomach

Inflammation  
Infiltration Cellular  
Hematopoietic Cell Proliferation  
Hyperplasia  
Inflammation  
Ulcer

Minimal  
Mononuclear CI, Minimal  
Minimal  
Squamous, Mild  
Mild  
Mild

[ Hyperplasia TGLS = 3-11 ]  
[ Inflammation TGLS = 3-11 ]  
[ Ulcer TGLS = 3-11 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 155

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501405

**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	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Eye	Cornea	Inflammation	Mild
Note: Both optic nerves missing.			
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Mild

Note: Oval cell hyperplasia and bile duct hyperplasia occurred in the hepatocellular adenoma.  
[ Hepatocellular Adenoma TGLS = 2-10 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 155	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501405

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-10 ]		
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 156

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501406

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland	Epithelium	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Carcinoma	
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	

[ Clear Cell Focus TGLS = 2-11 ]

[ Eosinophilic Focus TGLS = 3-12 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 156	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501406

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatocellular Carcinoma TGLS = 1-10 ]

* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Mild
* Pituitary Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Squamous Cell Papilloma	Multiple
		Ulcer	Mild

[ Squamous Cell Papilloma TGLS = 4-13 ]

* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 157

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501407

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
Coagulating Gland		Inflammation	Moderate
* Heart		Mineralization	Moderate
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
	Pelvis	Inflammation	Moderate
		Mineralization	Minimal
		Nephropathy	Moderate
<p>Note: Basement membrane, trichrome, and PAS stains were run. PAS staining was increased in glomeruli. The other stains were like control. Congo Red negative.</p>			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	

[ Clear Cell Focus TGLS = 4-12 ]

[ Hepatocellular Adenoma TGLS = 2-11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 157	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501407

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Mixed Cell Focus TGLS = 3-11 ]

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Moderate
* Prostate		Inflammation	Moderate
* Thymus		Atrophy	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear CI, Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 158

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501408

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Intestine Small, Jejunum		Carcinoma	
[ Carcinoma TGLS = 5-13 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	Mild
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Moderate

[ Cyst TGLS = 2-10+11 ]  
[ Hepatocellular Carcinoma TGLS = 4-12 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 158

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501408

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Necrosis TGLS = 1,3-3+10+11+12 ]

* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
	Olfactory Epi	Metaplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild

[ Hyperplasia TGLS = 6-14 ]

* Thymus		Atrophy	Marked
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 159      **TRT#:** 7      **SEX:** Male      **DAY ON TEST:** 732  
**DOSE:** 150 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
	Bile Duct	Fibrosis	Mild
		Hemorrhage	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Moderate
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Mild
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 159

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501409

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Necrosis	Minimal
[ Eosinophilic Focus TGLS = 4,5-11+12 ]			
[ Fibrosis TGLS = 3-3+10+11+12 ]			
[ Hemorrhage TGLS = 2-10 ]			
[ Hepatocellular Adenoma TGLS = 1-10 ]			
[ Necrosis TGLS = 4-11 ]			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
PRIMARY CAUSE OF DEATH	-		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 160

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Trachea			

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
		Necrosis	Mild
		[ Hepatocellular Carcinoma TGLS = 1-10 ]	
* Nose	Nerve	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 160

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501410

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild
	[ Hyperplasia TGLS = 2-11 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Infiltration Cellular	Mononuclear CI, Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 161

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Atrophy	Focal, Mild
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Metaplasia	Osseous, Moderate
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal

[ Clear Cell Focus TGLS = 1-3+4+10 ]

[ Fatty Change TGLS = 1-5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 161	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501411

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Mixed Cell Focus TGLS = 1-4+5+10 ]			
[ Necrosis TGLS = 1-4+10 ]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-10 ]			
* Lymph Node, Mandibular		Atrophy	Moderate
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-10 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 162

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501412

**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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Moderate
		Metaplasia	Osseous, Mild
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal
		[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]	
		[ Mixed Cell Focus TGLS = 2,3,4-5+10+11+12 ]	
* Nose	Nerve	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 162

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501412

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 163

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501413

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		Necrosis	Minimal

[ Clear Cell Focus TGLS = 4-12 ]

[ Cyst TGLS = 2-10 ]

[ Eosinophilic Focus TGLS = 4-5+12 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/22/2014

Time Report Requested: 00:28:21

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501413

ORGAN AND ACCOUNTABLE SITE STATUS

[ Mixed Cell Focus TGLS = 3-11,4-12 ]

\* Lung

Alveolus

Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma  
Infiltration Cellular

Histiocyte, Minimal

[ Alveolar/Bronchiolar Carcinoma TGLS = 5-13 ]

[ Infiltration Cellular TGLS = 6-14 ]

\* Nose

Nerve

Atrophy

Minimal

Olfactory Epi

Degeneration

Minimal

Respirat Epith

Hyperplasia

Minimal

Olfactory Epi

Metaplasia

Mild

\* Preputial Gland

Cyst

Mild

Inflammation

Mild

[ Cyst TGLS = 1-8 ]

\* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

\* Stomach, Forestomach

Hyperplasia

Squamous, Moderate

Inflammation

Moderate

Ulcer

Mild

[ Hyperplasia TGLS = 7-15 ]

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 164

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Harderian Gland [ Hyperplasia TGLS = 4-9 ]	Epithelium	Hyperplasia	Moderate
* Kidney	Glomerulus	Congestion Glomerulopathy Mineralization Nephropathy	Mild Hyaline, Moderate Minimal Mild
* Liver		Clear Cell Focus Eosinophilic Focus Fatty Change	
	Bile Duct	Hyperplasia	Focal, Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy Inflammation	Minimal Minimal
	Vein	Intravascular Hepatocyte Mixed Cell Focus Necrosis	Moderate Mild
[ Clear Cell Focus TGLS = 3-11 ] [ Mixed Cell Focus TGLS = 3-11 ]			
* Nose	Nerve	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 164

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501414

**ORGAN AND ACCOUNTABLE SITE STATUS**

Olfactory Epi  
Respirat Epith

Degeneration  
Hyperplasia  
Inflammation

Mild  
Minimal  
Minimal

Olfactory Epi

Metaplasia  
Cyst  
Infiltration Cellular

Minimal  
Mild  
Mononuclear CI, Mild

\* Preputial Gland

[ Cyst TGLS = 1-8 ]

\* Prostate

Infiltration Cellular

Mononuclear CI, Minimal

\* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLS = 2-10 ]

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 165

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501415

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Mild
Note: One mass on slide 10 was necrotic. [ Hepatocellular Carcinoma TGLS = 1,2,3,4,5-10+11+12 ] [ Necrosis TGLS = 6,7-12+13 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 165

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501415

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 8-14 ]		
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 166

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501416

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
[ Clear Cell Focus TGLS = 3-12 ]			
[ Eosinophilic Focus TGLS = 3-12 ]			
[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]			
[ Mixed Cell Focus TGLS = 3-11+12 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 166	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501416

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Pancreas	Acinus	Atrophy	Moderate
		Infiltration Cellular	Mononuclear CI, Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 4-13 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 167

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501417

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Moderate
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Mild
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal
		[ Hepatocellular Adenoma TGLS = 1,2,3-10+11+12 ]	
		[ Mixed Cell Focus TGLS = 4,5-10+13 ]	
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 167

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501417

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild
	[ Hyperplasia TGLS = 6-14 ]		
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 168

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501418

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Hepatocholangiocarcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		Necrosis	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 168	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501418

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatoblastoma TGLS = 3-11 ]  
[ Hepatocellular Adenoma TGLS = 1,2-10 ]  
[ Hepatocholangiocarcinoma TGLS = 4-12 ]  
[ Mixed Cell Focus TGLS = 6-12 ]

* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Mild
	[ Hyperplasia TGLS = 5-13 ]		
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 169

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501419

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Eye	* Gallbladder	* Harderian Gland
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
Blood Vessel	Aorta	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Esophagus		Alveolar/Bronchiolar Carcinoma	Metastatic (Liver)
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Heart)
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate

Note: Some glomeruli had the morphologic appearance of classical amyloid deposits.

Note: Liebs crystal violet and Bennholds congo red stain were run with negative results for amyloid.

* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 6-11 ]		
	[ Hepatocellular Carcinoma TGLS = 5-13 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1,2,3,4-10+11+12 ]		
* Nose	Nerve	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 169	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 638
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501419

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Erosion	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Mild
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 170

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501420

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate

Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.

Note: Some glomeruli had the morphologic appearance of classical amyloid deposits. Liebs crystal violet and Bennholds Congo Red stain were run with negative results.

* Liver		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Mild
		Pigmentation	Minimal

Note: Steins stain for bile pigments was negative, and Gomoris stain for iron was positive for the small amount of pigment present.

[ Hepatocellular Adenoma TGLS = 1-10 ]

* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 170

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501420

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
	[ Hyperplasia TGLS = 2-11 ]		
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 171

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501421

**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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Eye	Cornea	Inflammation	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Minimal

[ Eosinophilic Focus TGLS = 2-5+11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 171	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501421

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatocellular Carcinoma TGLS = 1-10 ]

* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild

[ Hyperplasia TGLS = 3-12 ]

* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 172

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501422

**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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Hepatocholangioma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild

[ Clear Cell Focus TGLS = 3-12 ]  
 [ Cyst TGLS = 1-10 ]  
 [ Hepatocellular Adenoma TGLS = 3-12 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 172	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501422

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatocellular Carcinoma TGLS = 3-12 ]

* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild

[ Hyperplasia TGLS = 4-13 ]

* Thymus		Atrophy	Mild
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 173

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 332

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Heart		Mineralization	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Pelvis	Inflammation	Mild
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Moderate
	Vein	Intravascular Hepatocyte	Minimal
		Tension Lipidosis	

Note: The fat in hepatocytes had a fine lacy pattern.

[ Fatty Change TGLS = 2-3+4+5 ]

* Lung		Inflammation	Mild
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
	Red Pulp	Atrophy	Mild

[ Atrophy TGLS = 1-4 ]

[ Atrophy TGLS = 1-4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 173

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 332

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501423

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Stomach, Forestomach

Hyperplasia  
Inflammation  
Ulcer

Squamous, Mild  
Mild  
Mild

[ Hyperplasia TGLS = 3-10 ]

\* Stomach, Glandular

Erosion

Mild

PRIMARY CAUSE OF DEATH

- Heart Mineralization

CONTRIBUTORY CAUSE OF DEATH

- Liver Fatty Change

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 174

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501424

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Minimal

[ Clear Cell Focus TGLS = 1,3,4,5-10+11+12 ]

[ Hepatocellular Adenoma TGLS = 3-12 ]

[ Hepatocellular Carcinoma TGLS = 2-11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 174

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501424

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Necrosis TGLS = 3-12 ]

\* Lymph Node, Mesenteric

Atrophy

Mild

\* Nose

Nerve

Atrophy

Minimal

Olfactory Epi

Degeneration

Minimal

Respirat Epith

Hyperplasia

Minimal

Inflammation

Minimal

Olfactory Epi

Metaplasia

Mild

\* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

\* Stomach, Forestomach

Hyperplasia

Squamous, Mild

Inflammation

Minimal

[ Hyperplasia TGLS = 6-13 ]

Tooth

Dysplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 175

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501425

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Minimal
* Bone		Osteosclerosis	Moderate
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 175	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501425

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: There was oval cell proliferation in the hepatocellular adenomas.

[ Eosinophilic Focus TGLS = 1-10 ]

[ Fatty Change TGLS = 1-10 ]

[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]

* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Mild
		Osteoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Inflammation	Minimal
	[ Hyperplasia TGLS = 3-12 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 176

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501426

**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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Tension Lipidosis	
[ Clear Cell Focus TGLS = 1-10 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 176

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501426

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

\* Stomach, Forestomach

Hyperplasia

Squamous, Mild

Inflammation

Minimal

[ Hyperplasia TGLS = 2-11 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 177

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501427

**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	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Mild
		Metaplasia	Osseous, Mild
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Necrosis	Mild

Note: Oval cell hyperplasia occurred in several of the hepatocellular adenomas.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 177

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501427

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Hepatocellular Adenoma TGLS = 2,3-10+11 ]		
	[ Hepatocellular Carcinoma TGLS = 4,5-12+13 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	[ Hyperplasia TGLS = 7-11 ]		
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland	Duct	Ectasia	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
	[ Ectasia TGLS = 1-8 ]		
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 8-14 ]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 178

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Malignant	
* Bone Marrow		Hemorrhage	Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-9 ]			
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls.		A Congo Red stain was negative.	
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Minimal
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 178

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501428

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Clear Cell Focus TGLS = 1-10 ]

[ Eosinophilic Focus TGLS = 1-10 ]

[ Mixed Cell Focus TGLS = 1-10 ]

* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 3-11 ]		
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 179

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Eye	* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hemangiosarcoma	Metastatic (Spleen)
* Epididymis		Hemangiosarcoma	Metastatic (Spleen)
		Infiltration Cellular	Mononuclear CI, Minimal
	[ Hemangiosarcoma TGLS = 1-7 ]		
* Esophagus		Inflammation	Minimal
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
	[ Adenoma TGLS = 4-9 ]		
* Heart		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
		Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.	
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 179      **TRT#:** 7      **SEX:** Male      **DAY ON TEST:** 731  
**DOSE:** 150 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501429

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Centrilobular, Hepatocyte	Hypertrophy Inflammation	Mild Minimal
	Vein	Intravascular Hepatocyte Mixed Cell Focus Necrosis	Mild Mild
	[ Clear Cell Focus TGLS = 6-12 ] [ Eosinophilic Focus TGLS = 6-12 ] [ Hepatocellular Carcinoma TGLS = 2,3-10+11 ] [ Mixed Cell Focus TGLS = 6-12 ]		
* Nose	Nerve Olfactory Epi Respirat Epith Olfactory Epi	Atrophy Degeneration Hyperplasia Metaplasia	Minimal Minimal Minimal Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation	
* Stomach, Forestomach		Hyperplasia Inflammation Ulcer	Minimal Squamous, Moderate Mild Moderate
	[ Hyperplasia TGLS = 5-13 ]		
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 180

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501430

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* 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	Subcapsular	Hyperplasia	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		Necrosis	Minimal

[ Clear Cell Focus TGLS = 1-10 ]  
 [ Eosinophilic Focus TGLS = 1-10 ]  
 [ Hepatocellular Adenoma TGLS = 1-10 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 180	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Mixed Cell Focus TGLS = 1-10 ] [ Necrosis TGLS = 1-10 ]			
* Nose	Nerve Olfactory Epi Respirat Epith	Atrophy Degeneration Hyperplasia Inflammation	Mild Mild Minimal Mild
	Olfactory Epi	Metaplasia	Mild
* Stomach, Forestomach		Hyperplasia Inflammation Ulcer	Squamous, Moderate Mild Mild
[ Hyperplasia TGLS = 2-11 ]			
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 181

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 473

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501431

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Hypertrophy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland	Duct	Ectasia	Minimal
	[ Ectasia TGLS = 1-8 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 182

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Mild

[ Clear Cell Focus TGLS = 4-13 ]  
 [ Eosinophilic Focus TGLS = 4,6-13+15 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 182

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501432

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Fatty Change TGLS = 3-12 ]  
[ Hepatocellular Adenoma TGLS = 5-14 ]  
[ Hepatocellular Carcinoma TGLS = 1-10 ]  
[ Mixed Cell Focus TGLS = 2-11 ]

* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Minimal
	[ Hyperplasia TGLS = 7-16 ]		
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 183

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 141

**DOSE:** 150 MG/KG

**DISP:** Natural Death

**HISTO:** 0501433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver	Centrilobular, Hepatocyte	Hypertrophy	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 184

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* 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	* Pancreas	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Moderate
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Minimal
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Mild
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 184

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501434

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Cyst TGLS = 3-11 ]

[ Hepatocellular Adenoma TGLS = 5,6-13+14 ]

[ Hepatocellular Carcinoma TGLS = 2-10 ]

[ Necrosis TGLS = 4-12 ]

\* Lung

Alveolar Epith  
 Alveolus

Alveolar/Bronchiolar Carcinoma  
 Hepatocellular Carcinoma  
 Hyperplasia  
 Infiltration Cellular

Metastatic (Liver)  
 Mild  
 Histiocyte, Minimal

[ Alveolar/Bronchiolar Carcinoma TGLS = 7-15 ]

\* Nose

Nerve  
 Olfactory Epi  
 Respirat Epith  
 Olfactory Epi

Atrophy  
 Degeneration  
 Hyperplasia  
 Inflammation  
 Metaplasia

Mild  
 Minimal  
 Minimal  
 Mild  
 Mild

\* Prostate

\* Spleen

\* Stomach, Forestomach

Infiltration Cellular  
 Hematopoietic Cell Proliferation  
 Hyperplasia  
 Inflammation

Mononuclear Cl, Minimal  
 Minimal  
 Squamous, Moderate  
 Mild

[ Hyperplasia TGLS = 8-16 ]

\* Testes

Interstit Cell

Adenoma

[ Adenoma TGLS = 1-7 ]

\* Thymus

Tooth

Atrophy  
 Dysplasia

Mild  
 Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 185

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle
* Skin	* Spleen	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal

[ Eosinophilic Focus TGLS = 2-4+11 ]  
 [ Hepatocellular Adenoma TGLS = 1-10 ]  
 [ Necrosis TGLS = 2-4 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 185	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501435

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Minimal
[ Hyperplasia TGLS = 3-12 ]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501436

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Infarct	Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		Necrosis	Minimal
		[ Eosinophilic Focus TGLS = 3-12 ]	
		[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]	
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Nose	Nerve	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501436

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Moderate
		Ulcer	Minimal
[ Hyperplasia TGLS = 4-13 ]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 187      **TRT#:** 7      **SEX:** Male      **DAY ON TEST:** 730  
**DOSE:** 150 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501437

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatoblastoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		Necrosis	Minimal
[ Clear Cell Focus TGLS = 3,4-3+4+11 ]			
[ Eosinophilic Focus TGLS = 3,4,5-10+11 ]			
[ Hepatoblastoma TGLS = 6-11 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 187	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501437

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Mixed Cell Focus TGLS = 3-10 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 7-12 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Minimal
[ Ectasia TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
[ Hyperplasia TGLS = 8-13 ]			
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 188

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 718

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

**MISSING**

\* Mammary Gland                      \* Thymus

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Heart		Mineralization	Moderate
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
	[ Nephropathy TGLS = 2-4 ]		
* Liver	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Fatty Change	Diffuse, Marked
	Vein	Intravascular Hepatocyte	Minimal
	Note: The fat was in a fine lace like pattern in the hepatocytes.		
	[ Fatty Change TGLS = 1-3+4+5 ]		
* Nose		Inflammation	Marked
	Olfactory Epi	Necrosis	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
	Red Pulp	Atrophy	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 188

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 718

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501438

**ORGAN AND ACCOUNTABLE SITE STATUS**

Inflammation

Mild

Ulcer

Mild

[ Hyperplasia TGLS = 3-10 ]

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

- Nose Inflammation

CONTRIBUTORY CAUSE OF DEATH

- Heart Mineralization; Liver Fatty Change

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 189

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	

Note: Oval cell hyperplasia was prominent in the adenoma.

[ Clear Cell Focus TGLS = 1-3+10 ]

[ Eosinophilic Focus TGLS = 1-3+10 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 189	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501439

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatocellular Adenoma TGLS = 2,3,4-11+12 ]			
[ Mixed Cell Focus TGLS = 1-4+10 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 5-13 ]			
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501440

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 190                      **TRT#:** 7                      **SEX:** Male                      **DAY ON TEST:** 731  
**DOSE:** 150 MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 0501440

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Cyst TGLS = 2-11 ]			
[ Eosinophilic Focus TGLS = 3-12 ]			
[ Hepatocellular Adenoma TGLS = 6-10 ]			
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
[ Mixed Cell Focus TGLS = 3-12 ]			
[ Necrosis TGLS = 3-12 ]			
* Lung		Alveolar/Bronchiolar Adenoma Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 4-13 ]			
* Nose	Nerve Olfactory Epi Respirat Epith Olfactory Epi	Atrophy Degeneration Hyperplasia Metaplasia	Mild Mild Minimal Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia Inflammation Squamous Cell Papilloma Ulcer	Squamous, Moderate Moderate Moderate
[ Hyperplasia TGLS = 5-14 ]			
[ Squamous Cell Papilloma TGLS = 5-14 ]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 191

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501441

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Cyst	Minimal
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Moderate

[ Eosinophilic Focus TGLS = 4-13 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 191

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501441

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hepatocellular Carcinoma TGLS = 1-10 ]

[ Mixed Cell Focus TGLS = 2-11 ]

[ Necrosis TGLS = 2-11 ]

* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 3-12 ]		
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 192

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	

Note: The basophilic focus with bile ducts was within a vessel.

[ Clear Cell Focus TGLS = 2,4-10+11 ]

[ Eosinophilic Focus TGLS = 2-11 ]

[ Fatty Change TGLS = 2-11 ]

[ Mixed Cell Focus TGLS = 1,2-10+11 ]

\* Lung Alveolar/Bronchiolar Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 192	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501442

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
		Inflammation	Mild
		Ulcer	Mild
	[ Hyperplasia TGLS = 3-12 ]		
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 193

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 702

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501443

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
	[ Nephropathy TGLS = 2-4 ]		
* Liver	Bile Duct	Cyst	Moderate
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 193

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 702

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501443

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Inflammation	Moderate
	Ulcer	Mild
[ Hyperplasia TGLS = 3-11 ]		
* Thymus	Atrophy	Mild
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 194

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501444

**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	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal

[ Clear Cell Focus TGLS = 1-10 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 194

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501444

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Eosinophilic Focus TGLS = 1-10 ]

[ Hepatocellular Adenoma TGLS = 2,3-11+12 ]

[ Necrosis TGLS = 1-10 ]

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
	[ Hyperplasia TGLS = 4-13 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 195

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501445

**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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Mild
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Eye	Cornea	Inflammation	Minimal
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion Glomerulopathy Mineralization Nephropathy	Mild Hyaline, Mild Minimal Mild
* Liver	Bile Duct	Clear Cell Focus Cyst Eosinophilic Focus	Mild Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy Inflammation	Minimal Minimal
	Vein	Intravascular Hepatocyte Mixed Cell Focus Necrosis	Mild Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 195

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501445

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Clear Cell Focus TGLS = 2-10 ]			
[ Eosinophilic Focus TGLS = 2-10 ]			
[ Mixed Cell Focus TGLS = 2-10 ]			
[ Necrosis TGLS = 2-10 ]			
* Lung	Alveolar Epith Alveolus	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Nerve Olfactory Epi Respirat Epith Olfactory Epi	Atrophy Degeneration Hyperplasia Metaplasia	Mild Mild Minimal Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia Inflammation	Squamous, Moderate Mild
[ Hyperplasia TGLS = 3-11 ]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 196

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 570

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501446

**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	* Pancreas	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

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

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye		Atrophy	Marked
Note: One eye was atrophic to the point of not being recognizable.			
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Mild
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Prostate		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 196

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 570

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501446

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 2-10 ]

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PRIMARY CAUSE OF DEATH

- Harderian Gland Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 197

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501447

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Heart		Mineralization	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		[ Clear Cell Focus TGLS = 1-10 ]	
		[ Eosinophilic Focus TGLS = 1-10 ]	
		[ Hepatocellular Adenoma TGLS = 1-10 ]	
* Nose	Nerve	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 197

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501447

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Mild
	[ Hyperplasia TGLS = 2-11 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 198

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501448

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
[ Hepatocellular Carcinoma TGLS = 2-10 ]			
[ Mixed Cell Focus TGLS = 3-11 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 198

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501448

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
	[ Hyperplasia TGLS = 4-12 ]		
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 199

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501449

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Metaplasia	Osseous, Mild
		Mineralization	Minimal
		Nephropathy	Mild
	[ Nephropathy TGLS = 1-4 ]		
* Liver		Eosinophilic Focus	
		Fatty Change	Diffuse, Moderate
	Vein	Intravascular Hepatocyte	Mild
	Note: The fat was diffusely scattered and was in a fine lace-like pattern.		
	[ Fatty Change TGLS = 2-3+4+5 ]		
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
	Red Pulp	Atrophy	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Minimal
	[ Hyperplasia TGLS = 3-10 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 199	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 640
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501449

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Mild
	Pulp	Inflammation	Moderate

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PRIMARY CAUSE OF DEATH	- Liver Fatty Change
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 200

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501450

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	

Note: TGL 3 was a focus of fatty change characterized by fine lace-like vacuoles in the cytoplasm of hepatocytes.-

[ Fatty Change TGLS = 3-12 ]

[ Hepatocellular Adenoma TGLS = 1-10 ]

* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 200

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501450

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Salivary Glands  
\* Stomach, Forestomach

Infiltration Cellular  
Hyperplasia  
Inflammation  
Ulcer

Mononuclear CI, Minimal  
Squamous, Mild  
Mild  
Mild

[ Hyperplasia TGLS = 2-11 ]

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 201

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501451

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Inflammation	Minimal
		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 2-11 ]		
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 203

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 681  
**HISTO:** 0501453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Liver		Hepatocellular Carcinoma	
		Histiocytic Sarcoma	
		Necrosis	Moderate
	[ Hepatocellular Carcinoma TGLS = 2-11 ]		
	[ Histiocytic Sarcoma TGLS = 3-12 ]		
* Lung		Histiocytic Sarcoma	
* Ovary		Atrophy	Moderate
		Cystadenoma	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Uterus		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 1-10 ]		

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

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 204

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501454

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infarct	Mild
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
Mesentery		Necrosis	Moderate
[ Necrosis TGLS = 4-12 ]			
* Ovary		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-7 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
[ Angiectasis TGLS = 5-6 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 1,2-10+11 ]			
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 204

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501454

**ORGAN AND ACCOUNTABLE SITE STATUS**

Tooth	Dysplasia	Minimal
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 205

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501455

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
[ Adenoma TGLS = 2-9 ]			
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary		Cyst	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 206

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501456

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
			[ Hyperplasia TGLS = 2-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Pulegone  
CAS Number: 89-82-7

Date Report Requested: 10/22/2014  
Time Report Requested: 00:28:22  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 207      TRT#: 2      SEX: Female      DAY ON TEST: 729  
DOSE: 0    MG/KG      DISP: Terminal Sacrifice      HISTO: 0501457

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye			
Note: Both optic nerves missing.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Mild
		Inflammation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 208

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501458

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Inflammation	Mild
Mesentery		Necrosis	Moderate
[ Necrosis TGLS = 2-10 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thyroid Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 209

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501459

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Gallbladder		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
[ Adenoma TGLS = 1-9 ]			
* Kidney		Metaplasia	Osseous, Mild
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Mild
* Lung		Inflammation	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 210

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501460

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Heart		Infiltration Cellular	Mononuclear CI, Mild
* Liver		Fatty Change	Focal, Minimal
		Lymphoma Malignant	
		Necrosis	Mild
* Lung		Lymphoma Malignant	
* Mammary Gland		Carcinoma	
	[ Carcinoma TGLS = 1-10 ]		
* Ovary		Atrophy	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Marked
* Urinary Bladder		Lymphoma Malignant	

**PRIMARY CAUSE OF DEATH**

- Mammary Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 211

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 715  
**HISTO:** 0501461

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* 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
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

**MISSING**

* Clitoral Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Papilla	Mineralization	Moderate
	Papilla	Necrosis	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Minimal
* Mammary Gland		Adenoacanthoma	
Note: Squamous metaplasia occurred in the tumor. [ Adenoacanthoma TGLS = 2-10 ]			
* Ovary		Angiectasis	Mild
		Atrophy	Marked
		Cyst	Mild
[ Cyst TGLS = 1-7 ]			
* Pituitary Gland		Degeneration	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 211

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 715  
**HISTO:** 0501461

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 3-11 ]

\* Thymus  
\* Urinary Bladder

Atrophy  
Infiltration Cellular

Marked  
Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH - Mammary Gland Adenoacanthoma  
CONTRIBUTORY CAUSE OF DEATH - Kidney Papilla Necrosis

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 212

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501462

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 2,3-10+11 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Minimal
[ Hyperplasia TGLS = 4-12 ]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus		Angiectasis	Moderate
[ Angiectasis TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 213      **TRT#:** 2      **SEX:** Female      **DAY ON TEST:** 729  
**DOSE:** 0    MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501463

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pituitary Gland	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Carcinoma	
		Mixed Cell Focus	
		Tension Lipidosis	
	[ Hepatocellular Carcinoma TGLS = 2-11 ]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Fibrosarcoma	
	[ Fibrosarcoma TGLS = 1-10 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicular Cel	Hyperplasia	Moderate
	[ Cyst TGLS = 3-3 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 214

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501464

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Nose	Glands	Cyst	Mild
* Ovary		Atrophy	Moderate
* Pancreas		Cytoplasmic Alteration	Focal, Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 1-10 ]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 215

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 598  
**HISTO:** 0501465

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Inflammation	Minimal
		Tension Lipidosis	
* Lung		Alveolar/Bronchiolar Carcinoma	
		Inflammation	Mild
Note: Eosinophilic crystals were present in the alveoli and in the cytoplasm of macrophages in the alveoli. [ Alveolar/Bronchiolar Carcinoma TGLS = 1-10 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Minimal
[ Hyperplasia TGLS = 2-11 ]			
* Thymus		Atrophy	Mild

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

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 216

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 666  
**HISTO:** 0501466

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Lymphoma Malignant	
* Heart		Mineralization	Moderate
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
		Necrosis	Moderate
	[ Lymphoma Malignant TGLS = 1-3+4+10+11, 2-10 ]		
* Nose		Inflammation	Mild
	Note: First and second nasal sections were missing due to cannibalism.		
* Ovary		Atrophy	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Lymphoma Malignant	
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Lymphoma Malignant	

**PRIMARY CAUSE OF DEATH**

- Liver Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 217

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501467

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Mononuclear CI, Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Atrophy	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 218

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501468

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 219

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 598  
**HISTO:** 0501469

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Ovary		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-6 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Moderate
[ Hyperplasia TGLS = 3-10 ]			
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 220

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501470

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Eye	Cornea	Inflammation	Minimal
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
[ Adenoma TGLS = 1-9 ]			
* Liver		Fatty Change	Diffuse, Mild
		Inflammation	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 221

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501471

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Ovary	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Mild
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 3-11 ]			
* Nose	Olfactory Epi	Metaplasia	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-6 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-10 ]			
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 222

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501472

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Infarct	Mild
* Liver		Lymphoma Malignant	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Carcinoma	
		Lymphoma Malignant	
		[ Hepatocellular Carcinoma TGLS = 1-10 ]	
		[ Lymphoma Malignant TGLS = 3-11 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 4-5 ]	
Mesentery	Fat	Necrosis	Moderate
		[ Necrosis TGLS = 2-11 ]	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus		Angiectasis	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 224

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501474

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Infarct	Mild
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 225

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501475

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Carcinoma	
		Inflammation	Mild
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 226

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 710  
**HISTO:** 0501476

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Histiocytic Sarcoma	
* Eye	Cornea	Inflammation	Moderate
Note: The cornea was ulcerated and there were inflammatory cells in the anterior chamber.			
* Harderian Gland		Lymphoma Malignant	
* Heart		Mineralization	Moderate
* Kidney		Accumulation, Hyaline Droplet	Moderate
		Lymphoma Malignant	
* Liver		Fatty Change	Diffuse, Moderate
		Hepatocellular Adenoma	Multiple
		Lymphoma Malignant	
		Necrosis	Mild
		[ Fatty Change TGLS = 5-3+4+5+11+12+13 ]	
		[ Hepatocellular Adenoma TGLS = 6,7-11+13 ]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 1-10 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery	Fat	Necrosis	Moderate
		[ Necrosis TGLS = 2-11 ]	
* Ovary		Atrophy	Marked
* Pancreas		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 226

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 710  
**HISTO:** 0501476

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Salivary Glands	Lymphoma Malignant	
* Spleen [ Lymphoma Malignant TGLS = 4-4 ]	Lymphoma Malignant	
* Stomach, Forestomach  [ Hyperplasia TGLS = 9-14 ]	Hyperplasia Inflammation Ulcer	Squamous, Mild Mild Mild
* Thymus	Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Lymph Node, Mandibular Lymphoma Malignant  
CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 227

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501477

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland	Epithelium	Adenoma	
		Hyperplasia	Mild
[ Adenoma TGLS = 1-9 ]			
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Nose	Respirat Epith	Metaplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 228

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 450  
**HISTO:** 0501478

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Adenoma	
		Cyst	Mild
[ Adenoma TGLS = 1-9 ]			
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Ovary		Atrophy	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Red Pulp	Atrophy	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLS = 2-10 ]			
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** - Stomach, Forestomach Hyperplasia

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 229

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501479

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Fibrous Histiocytoma	
[ Fibrous Histiocytoma TGLS = 1-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 230

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501480

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Inflammation	Mild
		Tension Lipidosis	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 231

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501481

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 232

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501482

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Moderate
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Liver		Eosinophilic Focus	
		Fatty Change	Diffuse, Mild
		Inflammation	Minimal
* Ovary		Granulosa Cell Tumor Benign	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 233

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501483

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Clitoral GI			
Note: One clitoral gland missing.			
* Eye	Retina	Cataract	Moderate
		Degeneration	Moderate
Note: The eye lesions were unilateral.			
* Harderian Gland		Carcinoma	
[ Carcinoma TGLS = 1-9 ]			
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Mild
* Ovary		Hemangioma	
Note: One ovary missing.			
[ Hemangioma TGLS = 2-7 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 234

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501484

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Pituitary Gland	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Inflammation	Mild
		Mixed Cell Focus	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 3-11 ]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 235

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 500  
**HISTO:** 0501485

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Kidney		Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Ovary		Cyst	Moderate
Note: The ovarian cyst contained clotted blood. [ Cyst TGLS = 1-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Pulegone  
CAS Number: 89-82-7

Date Report Requested: 10/22/2014  
Time Report Requested: 00:28:22  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 236

TRT#: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 0501486

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Minimal
		Tension Lipidosis	
[ Hepatocellular Adenoma TGLS = 3-10 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-6 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
Tooth		Dysplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 237

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 695  
**HISTO:** 0501487

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Moderate
		Inflammation	Minimal
* Lung		Schwannoma Malignant	Metastatic (Skin)
[ Schwannoma Malignant TGLS = 4-12 ]			
Lymph Node	Mediastinal	Schwannoma Malignant	Metastatic (Skin)
[ Schwannoma Malignant TGLS = 3-12 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 5-13 ]			
* Ovary		Atrophy	Moderate
		Cyst	Mild
* Skin		Schwannoma Malignant	Multiple
[ Schwannoma Malignant TGLS = 1,2-10+11 ]			
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH** - Skin Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 238

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 0501488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Myelofibrosis	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 239

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501489

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Tension Lipidosis	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 240

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501490

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Diffuse, Mild
		Inflammation	Minimal
		Mixed Cell Focus	
[ Eosinophilic Focus TGLS = 1-10 ]			
[ Mixed Cell Focus TGLS = 1-10 ]			
* Ovary			
Note: One ovary missing.			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 241

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 663  
**HISTO:** 0501491

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 2-10 ]			
* Ovary		Atrophy	Moderate
* Pancreas	Acinus	Atrophy	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Schwannoma Malignant	
[ Schwannoma Malignant TGLS = 1-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** - Skin Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 242

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 683  
**HISTO:** 0501492

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 243

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501493

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Brain		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
		Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 244

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501494

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland	Epithelium	Hyperplasia	Moderate
		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Inflammation	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Papilla	Mineralization	Minimal
		Necrosis	Moderate
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		[ Hyperplasia TGLS = 1-6 ]	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 244

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501494

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 245

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 716  
**HISTO:** 0501495

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hemangiosarcoma	
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Papilla	Accumulation, Hyaline Droplet	Mild
		Necrosis	Moderate
		Nephropathy	Marked
	[ Nephropathy TGLS = 4,5-4 ]		
* Liver		Histiocytic Sarcoma	
		Necrosis	Minimal
	[ Histiocytic Sarcoma TGLS = 2,3-3+4+5+11+12 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 6-13 ]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 1-10 ]		
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild
	[ Hyperplasia TGLS = 7-14 ]		
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 245

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 716  
**HISTO:** 0501495

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma  
CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Hemangiosarcoma;Kidney Papilla Necrosis

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 246	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501496

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Mild
		Inflammation	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 247

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501497

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Skin
* Stomach, Glandular	* Trachea	* Uterus	

**MISSING**

* Gallbladder	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
		[ Hepatocellular Adenoma TGLS = 2,3,5-10+11 ]	
* Ovary		Cyst	Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
		[ Hyperplasia TGLS = 1-6 ]	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Carcinoma	
		[ Carcinoma TGLS = 4-3 ]	
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 248

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501498

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
[ Adenoma TGLS = 2-9 ]			
* Kidney	Renal Tubule	Adenoma	
	Glomerulus	Congestion	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3-11 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus		Angiectasis	Mild
	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 249

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 0501499

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland	Epithelium	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run to establish the amount of staining in controls. A Congo Red stain was negative.			
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-10 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 250

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 0501500

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Adenoma	
	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Eye			
Note: Optic nerve in slide 2.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Mild
		Inflammation	Minimal
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 252

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501502

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 1-10 ]			
* Ovary		Atrophy	Marked
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 253

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501503

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Minimal
[ Basophilic Focus TGLS = 2-10 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-11 ]			
* Pancreas		Cytoplasmic Alteration	Focal, Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 254

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 493

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501504

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-14 ]			
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-13 ]			
[ Lymphoma Malignant TGLS = 5-12 ]			
[ Lymphoma Malignant TGLS = 4-11 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-10 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-4 ]			
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 254

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 493

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501504

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 255

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501505

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Liver		Hepatocellular Adenoma	
		Inflammation	Minimal
* Ovary		Luteoma	
[ Luteoma TGLS = 5-7 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Schwannoma Malignant	Multiple
[ Schwannoma Malignant TGLS = 2,3-10+11 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 4-12 ]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 256

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501506

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
	[ Adenoma TGLS = 1-9 ]		
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Mammary Gland		Carcinoma	
	[ Carcinoma TGLS = 2-10 ]		
* Ovary		Cyst	Mild
	[ Cyst TGLS = 3-7 ]	Cystadenoma	
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 4-11 ]		
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 257

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501507

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-10 ]			
* Ovary		Cyst	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 258

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501508

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-10 ]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[ Angiectasis TGLS = 2-6 ]		Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 259

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501509

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Infarct	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Minimal
		Tension Lipidosis	
* Nose	Olfactory Epi	Metaplasia	Minimal
* Pancreas	Acinus	Atrophy	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 260

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501510

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Myelofibrosis	Moderate Mild Moderate
* Bone Marrow		Infiltration Cellular	Mononuclear Cl, Minimal
* Harderian Gland		Basophilic Focus	
* Liver		Fatty Change Inflammation	Diffuse, Minimal Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 261	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501511

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 262

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501512

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Intestine Large, Cecum		Leiomyoma	
[ Leiomyoma TGLS = 3-11 ]			
* Kidney		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Hepatocellular Adenoma	
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 4-10 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 263

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501513

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Heart		Histiocytic Sarcoma	
* Kidney	Pelvis	Dilatation	Mild
	Papilla	Histiocytic Sarcoma	
		Necrosis	Moderate
[ Dilatation TGLS = 3-4 ]			
* Liver		Histiocytic Sarcoma	
		Necrosis	Mild
[ Histiocytic Sarcoma TGLS = 2-3+4+5 ]			
* Ovary		Histiocytic Sarcoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-10 ]			

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

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 264

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 513

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501514

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Heart		Inflammation	Mild
* Intestine Large, Rectum	Artery	Inflammation	Chronic Active, Moderate
* Intestine Small, Duodenum	Artery	Inflammation	Chronic Active, Mild
* Intestine Small, Ileum	Artery	Inflammation	Chronic Active, Moderate
* Intestine Small, Jejunum	Artery	Inflammation	Chronic Active, Mild
* Liver		Inflammation	Minimal
Mesentery	Artery	Inflammation	Chronic Active, Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
	Artery	Inflammation	Chronic Active, Moderate
* Stomach, Glandular	Artery	Inflammation	Chronic Active, Mild
* Urinary Bladder	Artery	Inflammation	Chronic Active, Moderate

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 265

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501515

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Myelofibrosis	Minimal
* Clitoral Gland		Inflammation	Moderate
* Gallbladder		Infiltration Cellular	Mononuclear CI, Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Angiectasis	Moderate
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
		Alveolar/Bronchiolar Adenoma	
		Atrophy	Moderate
		Infiltration Cellular	Mononuclear CI, Minimal
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal

[ Angiectasis TGLS = 2-10 ]

[ Hepatocellular Adenoma TGLS = 1-10 ]

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 266

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501516

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
* Uterus		Decidual Reaction	Moderate

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 267	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501517

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

---

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 1,2-10+11 ]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 268

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501518

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 269

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501519

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Fatty Change	Diffuse, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 270

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 645

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Metaplasia	Osseous, Mild
* Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
[ Hepatocellular Adenoma TGLS = 1-10 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-11 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 271

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 694

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501521

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	Multiple
		Inflammation	Mild
	[ Hepatocellular Adenoma TGLS = 3,4-11+12 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 1-10 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Sarcoma	
	[ Sarcoma TGLS = 5-13 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 271

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 694

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501521

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skin Sarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 272

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501522

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye			
Note: Optic nerve on slide two.			
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Minimal
* Lung		Inflammation	Minimal
* Ovary		Cystadenocarcinoma	
[ Cystadenocarcinoma TGLS = 2-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 273

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501523

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
	Vein	Intravascular Hepatocyte	Minimal
	[ Hepatoblastoma TGLS = 3-11 ]		
	[ Hepatocellular Adenoma TGLS = 2,4,5-10+12+13 ]		
* Lung		Inflammation	Minimal
* Ovary		Cyst	Mild
	[ Cyst TGLS = 1-7 ]		
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus		Inflammation	Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 274

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501524

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye			
Note: Optic nerve on slide 2.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
[ Eosinophilic Focus TGLS = 4-11 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-10 ]			
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[ Cyst TGLS = 1-6 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 274

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501524

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 275

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501525

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Eye			
Note: Optic nerve on slide 2.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
		Pigmentation	Moderate
* Liver		Fatty Change	Focal, Minimal
		Inflammation	Minimal
		Tension Lipidosis	
* Ovary		Cyst	Marked
[ Cyst TGLS = 2-10 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 276

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501526

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Pancreas		Cytoplasmic Alteration	Focal, Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 277

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501527

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Liver		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
		Tension Lipidosis	
	[ Hepatocellular Adenoma TGLS = 1,2,3,4,5-10+11+12+13 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 6-14 ]		
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 279

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501529

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Minimal
	[ Hepatocellular Adenoma TGLS = 2,3-11+12 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-10 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Moderate
	Peridont Tiss	Inflammation	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 280

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501530

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Gallbladder		Infiltration Cellular	Mononuclear CI, Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 281	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501531

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

---

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Ovary		Cyst	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 282

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501532

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
		Tension Lipidosis	
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 283

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501533

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 2-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 284

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501534

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 2-10 ]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 285

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501535

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Infarct	Mild
		Metaplasia	Osseous, Mild
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Pituitary Gland		Angiectasis	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 286

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501536

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Ovary		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Metaplasia	Mild

Note: There was squamous metaplasia in one uterine horn.

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 287

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501537

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Clitoral GI			
Note: One clitoral gland missing.			
* Liver		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2,3-10+11 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 288

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501538

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Eye	* 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			

**MISSING**

* Ovary	* Urinary Bladder	* Uterus
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
		Myelofibrosis	Mild
* Esophagus	Periesoph Tiss	Inflammation	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney			
Note: Basement membrane, trichrome, and PAS stains were run and results were similar to controls. A Congo Red stain was negative.			
* Liver	Centrilobular, Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Mild
		Inflammation	Minimal
Note: Hepatocyte hypertrophy was extensive enough to almost be diffuse. [ Hepatocellular Adenoma TGLS = 1-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear Cl, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 289      **TRT#:** 4      **SEX:** Female      **DAY ON TEST:** 729  
**DOSE:** 37.5 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501539

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Kidney	Glomerulus	Congestion Glomerulopathy Nephropathy	Minimal Hyaline, Minimal Minimal
* Liver		Eosinophilic Focus Fatty Change Hepatocellular Adenoma Hepatocellular Carcinoma Mixed Cell Focus	Diffuse, Minimal
[ Hepatocellular Adenoma TGLS = 2-10 ]			
[ Hepatocellular Carcinoma TGLS = 1-10 ]			
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 290

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501540

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* 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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-6 ]		
* Thymus		Atrophy	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 291

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501541

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Ovary		Atrophy	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 292

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 624

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501542

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Glomerulus	Congestion	Minimal
* Liver		Fatty Change	Diffuse, Minimal
* Ovary		Cyst	Mild
Note: The ovarian cyst was an epidermoid cyst.			
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 293

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501543

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Myelofibrosis	Mild
* Eye			
Note: Both optic nerves missing.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-10 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Parathyroid Gland		Infiltration Cellular	Lymphocyte, Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 294

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501544

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Diffuse, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-10 ]			
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 295

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501545

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Liver		Fatty Change	Diffuse, Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-10 ]			
* Ovary		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 296

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 640

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501546

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Myelofibrosis	Moderate
* Eye		Atrophy	Moderate
Note: One eye was atrophic.			
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
[ Adenoma TGLS = 1-9 ]			
* Liver		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

- Harderian Gland Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 297

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 706

**DOSE:** 37.5 MG/KG

**DISP:** Natural Death

**HISTO:** 0501547

**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, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye		Atrophy	Moderate
* Kidney		Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLS = 2-4 ]		
* Liver		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
		Necrosis	Mild
		Sarcoma	Metastatic (Skin)
		Tension Lipidosis	
	[ Hepatocellular Adenoma TGLS = 5-13 ]		
	[ Mixed Cell Focus TGLS = 7-15 ]		
	[ Necrosis TGLS = 6-14 ]		
* Lung		Sarcoma	Metastatic (Skin)
	[ Sarcoma TGLS = 8,9-16+17 ]		
* Lymph Node, Mandibular		Atrophy	Moderate
Mesentery	Fat	Necrosis	Moderate
		Sarcoma	Metastatic (Skin)
	[ Necrosis TGLS = 3-11 ]		
* Ovary		Atrophy	Marked
* Pancreas		Sarcoma	Metastatic (Skin)

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 297	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 706
	<b>DOSE:</b> 37.5 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501547

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Skin [ Sarcoma TGLS = 1-10 ]	Sarcoma	
* Thymus	Atrophy	Marked

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**PRIMARY CAUSE OF DEATH** - Skin Sarcoma

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Animal Note: TGL 4 = NCL (No Corresponding Lesion)

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 298

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 575

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501548

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Marked
* Brain		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Liver		Fatty Change	Diffuse, Minimal
		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-3+4+5 ]			
* Lung		Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-12 ]			
[ Lymphoma Malignant TGLS = 3-11 ]			
[ Lymphoma Malignant TGLS = 5-10 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Cyst	Moderate
		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-10 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 298

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 575

**DOSE:** 37.5 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501548

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 299

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501549

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Inflammation	Mild
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 2-10 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 300

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 37.5 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501550

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**MISSING**

\* Lymph Node, Mesenteric                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Metaplasia	Minimal
* Ovary		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 301

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 541

**DOSE:** 75 MG/KG

**DISP:** Natural Death

**HISTO:** 0501551

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Lung		Sarcoma	Metastatic (Skin)
[ Sarcoma TGLS = 4-11 ]			
Lymph Node	Inguinal	Sarcoma	Metastatic (Skin)
[ Sarcoma TGLS = 3-11 ]			
* Ovary		Atrophy	Moderate
* Skin		Sarcoma	
[ Sarcoma TGLS = 1-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-4 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Skin Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 302

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501552

**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	* 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	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Eye		Atrophy	Moderate
[ Atrophy TGLS = 2-9 ]			
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Liver		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
* Ovary		Atrophy	Moderate
Note: One ovary missing.			
* Spleen		Hyperplasia	Lymphoid, Marked
[ Hyperplasia TGLS = 3-4 ]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 303      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 729  
**DOSE:** 75 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501553

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Necrosis	Mild
* Brain	Hippocampus	Gliosis	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Minimal
	Oval Cell	Hyperplasia	Mild
	Vein	Intravascular Hepatocyte	Minimal
* Lung		Schwannoma Malignant	Metastatic (Skin)
* Nose	Olfactory Epi	Degeneration	Mild
* Ovary		Angiectasis	Moderate
		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Skeletal Muscle		Rhabdomyosarcoma	
[ Rhabdomyosarcoma TGLS = 2-11 ]			
* Skin		Schwannoma Malignant	
[ Schwannoma Malignant TGLS = 1-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Inflammation	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 303

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501553

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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:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 304

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501554

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Carcinoma	
[ Carcinoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Mineralization	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
[ Fatty Change TGLS = 3-10 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Ovary		Atrophy	Moderate
		Cyst	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 305	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501555

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Mammary Gland	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Reticulum Cell, Moderate
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 306

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501556

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Adenoma	
* Liver		Fatty Change	Diffuse, Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-10 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Ovary		Teratoma Benign	
Note: One ovary missing.			
[ Teratoma Benign TGLS = 1-7 ]			
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 308

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501558

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Clitoral GI			
Note: One clitoral gland missing.			
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Metaplasia	Osseous, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
Tooth		Dysplasia	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 309

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501559

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland			
Note: One clitoral gland missing.			
* Kidney		Glomerulopathy	Hyaline, Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-10 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Moderate
* Spleen		Hyperplasia	Lymphoid, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Pulegone  
CAS Number: 89-82-7

Date Report Requested: 10/22/2014  
Time Report Requested: 00:28:22  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 310 TRT#: 6 SEX: Female DAY ON TEST: 584  
DOSE: 75 MG/KG DISP: Natural Death HISTO: 0501560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Eye			
Note: Optic nerve missing and right eye cannibalized.			
* Harderian Gl			
Note: One harderian gland cannibalized.			
* Liver		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Mild
[ Fatty Change TGLS = 2-10 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-11 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 4-12 ]			
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 311

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501561

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Osteosclerosis	Mild
* Bone Marrow		Myelofibrosis	Mild
* Clitoral Gl			
Note: One clitoral gland missing.			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 313

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 631

**DOSE:** 75 MG/KG

**DISP:** Natural Death

**HISTO:** 0501563

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye			
Note: One eye cannibalized.			
* Harderian Gland		Carcinoma	
[ Carcinoma TGLS = 2-9 ]			
* Liver		Hepatoblastoma	
[ Hepatoblastoma TGLS = 1-10 ]			
[ Hepatocellular Adenoma TGLS = 4-11 ]			
[ Hepatocellular Carcinoma TGLS = 3-11 ]			
* Nose	Olfactory Epi	Degeneration	Mild

**PRIMARY CAUSE OF DEATH**

- Liver Hepatoblastoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 314

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501564

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Mammary Gland
* Nose	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Infiltration Cellular	Mononuclear Cl, Mild
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Metaplasia	Osseous, Mild
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Mild
	Vein	Intravascular Hepatocyte	Mild
* Ovary		Cyst	Mild
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 315

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501565

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 316

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501566

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 317

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501567

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
* Lymph Node, Mesenteric		Atrophy	Moderate
* Ovary		Atrophy	Marked
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 318

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501568

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Myelofibrosis	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-10 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-11 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Ovary		Atrophy	Marked
		Cyst	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 319

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501569

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 2-10 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 320      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 75    MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501570

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	Vein	Intravascular Hepatocyte	Minimal
[ Clear Cell Focus TGLS = 1-10 ]			
[ Eosinophilic Focus TGLS = 1-10 ]			
[ Fatty Change TGLS = 1-10 ]			
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 321

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501571

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
* Liver		Fatty Change	Diffuse, Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-10 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 322

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 667

**DOSE:** 75 MG/KG

**DISP:** Natural Death

**HISTO:** 0501572

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* 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	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
		Hypertrophy	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Clitoral Gland		Inflammation	Mild
* Liver		Hepatocellular Carcinoma	
		Inflammation	Minimal
	[ Hepatocellular Carcinoma TGLS = 2-10 ]		
* Nose		Inflammation	Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 1-7 ]		

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 323

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 714

**DOSE:** 75 MG/KG

**DISP:** Natural Death

**HISTO:** 0501573

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Brain		Necrosis	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Mineralization	Moderate
* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Moderate
		Hepatocellular Adenoma	
	Vein	Intravascular Hepatocyte	Minimal
		Lymphoma Malignant	
		Necrosis	Mild

Note: The fat was in a fine lace-like pattern.

[ Hepatocellular Adenoma TGLS = 6-12 ]

[ Lymphoma Malignant TGLS = 5-3+4+5 ]

* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	

[ Lymphoma Malignant TGLS = 4-11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 323

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 714

**DOSE:** 75 MG/KG

**DISP:** Natural Death

**HISTO:** 0501573

**ORGAN AND ACCOUNTABLE SITE STATUS**

Mesentery [ Necrosis TGLS = 3-10 ]	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Marked
* Spleen [ Lymphoma Malignant TGLS = 1-10 ]		Lymphoma Malignant	
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Lymphoma Malignant	
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Brain Necrosis

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 324

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501574

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Marked

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 325

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501575

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Lymphoma Malignant	
		Mixed Cell Focus	
[ Eosinophilic Focus TGLS = 6-12 ]			
[ Lymphoma Malignant TGLS = 7-13 ]			
* Lung		Lymphoma Malignant	
Lymph Node	Pancreatic	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-11 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 4-10 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Marked
		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Parathyroid Gland		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 325	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501575

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-10 ]			
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 2-7 ]			

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 326

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501576

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone	Cranium	Myelofibrosis	Moderate
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLS = 1-10 ]		
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	Multiple
	[ Squamous Cell Papilloma TGLS = 2-10 ]		
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 327

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501577

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye			
Note: Optic nerves on slide 2.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
		Necrosis	Mild
[ Hepatocellular Carcinoma TGLS = 2-10+11 ]			
[ Necrosis TGLS = 1-10 ]			
* Ovary		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus		Polyp Stromal	

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 328

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 544

**DOSE:** 75 MG/KG

**DISP:** Natural Death

**HISTO:** 0501578

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Granulocytic	
Blood Vessel		Mineralization	Moderate
* Bone Marrow		Leukemia Granulocytic	
* Heart		Mineralization	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Vacuolization Cytoplasmic	Mild
* Liver		Fatty Change	Diffuse, Moderate
Note: The fatty change was in a fine lace-like pattern.			
* Lung		Mineralization	Mild
* Ovary		Atrophy	Moderate
* Spleen		Leukemia Granulocytic	
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
* Thymus		Atrophy	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Leukemia Granulocytic	

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

- Spleen Leukemia Granulocytic

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 329

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501579

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Osteoma	
[ Osteoma TGLS = 1-10 ]			
* Bone Marrow		Myelofibrosis	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Inflammation	Minimal
* Kidney	Glomerulus	Congestion	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
[ Hepatocellular Adenoma TGLS = 2-11 ]			
[ Mixed Cell Focus TGLS = 3-11 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Nose	Nerve	Atrophy	Minimal
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 329

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501579

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Pulegone  
CAS Number: 89-82-7

Date Report Requested: 10/22/2014  
Time Report Requested: 00:28:23  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 330                      TRT#: 6                      SEX: Female                      DAY ON TEST: 730  
DOSE: 75    MG/KG                      DISP: Terminal Sacrifice                      HISTO: 0501580

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatoblastoma	
		Hepatocellular Adenoma	
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
[ Cyst TGLS = 4-12 ]			
[ Eosinophilic Focus TGLS = 6-13 ]			
[ Hepatoblastoma TGLS = 5-12 ]			
[ Hepatocellular Adenoma TGLS = 3-11 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-10 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 330

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501580

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 331

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501581

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Mild
		Fatty Change	Diffuse, Minimal
[ Cyst TGLS = 2-10 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	

[ Polyp Stromal TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 332

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501582

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mixed Cell Focus	
[ Clear Cell Focus TGLS = 3-10 ]			
[ Mixed Cell Focus TGLS = 2-10 ]			
* Nose		Osteoma	
* Ovary		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 333

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501583

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Skin	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
Blood Vessel		Lymphoma Malignant	
* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Fatty Change	Diffuse, Moderate
		Lymphoma Malignant	
Note: The fat was in a fine lace-like pattern.			
* Lung		Lymphoma Malignant	
Lymph Node	Bronchial	Lymphoma Malignant	
	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Marked
		Cyst	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 333	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501583

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Cyst TGLS = 4-7 ]			
* Pancreas		Lymphoma Malignant	
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Angiectasis TGLS = 9-6 ]			
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-10 ]			
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
		Lymphoma Malignant	
		Ulcer	Mild
[ Hyperplasia TGLS = 10-15 ]			
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 334

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501584

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Liver		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Metaplasia	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 335

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501585

**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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Eye	Choroid, Sclera	Inflammation	Moderate
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
		Necrosis	Moderate
[ Hepatocellular Adenoma TGLS = 4-11 ]			
[ Necrosis TGLS = 3-10 ]			
* Lung		Inflammation	Moderate
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 5-12 ]			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 335

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501585

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Urinary Bladder

Infiltration Cellular

Mononuclear CI, Minimal

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

- Harderian Gland Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 336

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 268

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501586

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver		Inflammation	Minimal
		Tension Lipidosis	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 337

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 642

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501587

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland			
Note: One clitoral gland missing.			
* Harderian Gland		Adenoma	
		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
* Liver		Fatty Change	Diffuse, Moderate
		Fatty Change	Focal, Minimal
	Vein	Intravascular Hepatocyte	Minimal
Note: The diffuse fatty change was in a fine lace-like pattern. [ Fatty Change TGLS = 2-3+4+5 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Mild
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-10 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 337

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 642

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501587

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Liver Fatty Change

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 338

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501588

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hemangiosarcoma	
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run. PAS staining was increased in glomeruli. The other stains were like control. Congo Red negative.			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Inflammation	Minimal
[ Clear Cell Focus TGLS = 3-10 ]			
[ Fatty Change TGLS = 3-10 ]			
[ Hepatocellular Adenoma TGLS = 4-11 ]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Ovary		Atrophy	Marked
		Cyst	Mild
[ Cyst TGLS = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 338

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501588

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-7 ]			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 339

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501589

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Fatty Change	Diffuse, Minimal
		Fatty Change	Focal, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Tension Lipidosis	
[ Clear Cell Focus TGLS = 3-11 ]			
[ Cyst TGLS = 4-12 ]			
[ Fatty Change TGLS = 3-11 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-10 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Ovary		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 340

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501590

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.			
* Liver		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 1-10 ]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Minimal
[ Hyperplasia TGLS = 2-11 ]			
Tooth		Dysplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 341

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501591

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-10 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
		Inflammation	Mild
		Ulcer	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 342

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501592

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Ovary	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**MISSING**

* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
	Vein	Intravascular Hepatocyte	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas		Infiltration Cellular	Mononuclear Cl, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Mild
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-4 ]			
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 343

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501593

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Vacuolization Cytoplasmic	Mild
* Liver		Fatty Change	Diffuse, Moderate
		Tension Lipidosis	
Note: Fatty change in hepatocytes was in a diffuse fine lace-like pattern.			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLS = 1-10 ]		
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
		Pigmentation	Minimal
* Thymus		Atrophy	Marked
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 344

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501594

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Atrophy	Mild
		Myelofibrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 1-10 ]			
* Ovary		Atrophy	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 346

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501596

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
		Myelofibrosis	Mild
* Kidney		Cyst	Mild
		Glomerulopathy	Hyaline, Marked

Note: Liebs crystal violet and Bennholds Congo Red stain were also run with negative results for amyloid.

Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.

[ Cyst TGLS = 1-10 ]

* Liver	Bile Duct	Cyst	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Ovary		Cyst	Mild

[ Cyst TGLS = 3-7 ]

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Glandular		Mineralization	Mild
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- Kidney Glomerulopathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 347

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 439

**DOSE:** 75 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501597

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Osteosarcoma	
[ Osteosarcoma TGLS = 1-10 ]			
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland			
Note: One clitoral gland missing.			
* Gallbladder		Osteosarcoma	Metastatic (Bone)
* Intestine Small, Duodenum		Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 10-17 ]			
* Kidney		Cyst	Mild
		Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 3,4-11+12 ]			
* Liver		Fatty Change	Diffuse, Moderate
		Necrosis	Moderate
		Osteosarcoma	Metastatic (Bone)
Note: The fatty change had a fine lace-like pattern.			
[ Osteosarcoma TGLS = 6,7,8-3+4+13+14+15 ]			
* Lung		Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 9-16 ]			
Lymph Node	Mediastinal	Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 5-13 ]			
* Lymph Node, Mandibular		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 347	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 439
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501597

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesentery [ Osteosarcoma TGLS = 2-11 ]		Osteosarcoma	Metastatic (Bone)
* Ovary		Osteosarcoma	Metastatic (Bone)
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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<b>PRIMARY CAUSE OF DEATH</b>	- Bone Osteosarcoma
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 348

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501598

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Mineralization	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Mild
		Fatty Change	Diffuse, Mild
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Minimal
	[ Hepatocellular Adenoma TGLS = 1,2-10 ]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 349

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501599

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Fatty Change	Diffuse, Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Mild
* Ovary		Atrophy	Moderate
		Hemangioma	
[ Hemangioma TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 350	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 662
	<b>DOSE:</b> 75 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501600

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

* Eye	* Harderian Gland	* Lymph Node, Mandibular	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Thyroid Gland	

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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver	Centrilobular, Hepatocyte	Hypertrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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[ Hyperplasia TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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Animal Note: Part of nose, salivary glands, thyroid, parathyroid, pituitary, mandibular lymph nodes, eyes, optic nerves, and Harderian glands cannibalized.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 351

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501601

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Eye			
Note: Optic nerve on slide 2.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Minimal
		Pigmentation	Mild

Note: Steins stain for bile pigments was negative, and Gomoris iron stain was negative with the exception of minimal background staining.

[ Clear Cell Focus TGLS = 5-4+5+13 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/22/2014

Time Report Requested: 00:28:23

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501601

ORGAN AND ACCOUNTABLE SITE STATUS

[ Cyst TGLS = 2-11 ]

[ Eosinophilic Focus TGLS = 5-4+5+13 ]

[ Hepatocellular Adenoma TGLS = 3,5-12+13 ]

[ Hypertrophy TGLS = 4,5-4+5+12+13 ]

\* Lung Alveolar/Bronchiolar Carcinoma

[ Alveolar/Bronchiolar Carcinoma TGLS = 1-10 ]

\* Nose Nerve Atrophy Mild

Olfactory Epi Degeneration Minimal

Olfactory Epi Metaplasia Minimal

\* Ovary Atrophy Marked

Note: One ovary missing.

\* Salivary Glands Infiltration Cellular Mononuclear CI, Minimal

\* Urinary Bladder Infiltration Cellular Mononuclear CI, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 352

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 591

**DOSE:** 150 MG/KG

**DISP:** Natural Death

**HISTO:** 0501602

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Carcinoma	
[ Carcinoma TGLS = 1-9 ]			
* Liver		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Moderate
	Vein	Intravascular Hepatocyte	Mild
		Pigmentation	Minimal
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Mild
* Ovary		Atrophy	Marked
		Cyst	Mild
[ Cyst TGLS = 2-7 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-10 ]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 352

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 591

**DOSE:** 150 MG/KG

**DISP:** Natural Death

**HISTO:** 0501602

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hyperplasia TGLS = 4-11 ]	Ulcer	Mild
* Thymus	Atrophy	Moderate
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Mild

**PRIMARY CAUSE OF DEATH**

- Spleen Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 353

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501603

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Myelofibrosis	Minimal
* Clitoral GI			
Note: One clitoral gland missing.			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Metaplasia	Osseous, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal
		Pigmentation	Minimal

[ Cyst TGLS = 1-10 ]

[ Hepatocellular Adenoma TGLS = 2-11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 353	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501603

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Mixed Cell Focus TGLS = 4-11 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
[ Hyperplasia TGLS = 3-12 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Minimal
[ Hyperplasia TGLS = 5-13 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 354	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501604

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Metaplasia	Moderate
* Ovary		Ulcer	Minimal
		Atrophy	Marked
		Cyst	Mild
Note: The cyst contained clotted blood. [ Cyst TGLS = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 355

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501605

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Osteosclerosis	Mild
Note: Osteosclerosis affected the nose.			
* Clitoral Gland		Inflammation	Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.			
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Mild
		Pigmentation	Minimal
[ Cyst TGLS = 2,3-10+11 ]			
[ Hepatocellular Adenoma TGLS = 4-11 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 355	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501605

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Mild
	[ Hyperplasia TGLS = 5-12 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 356

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 670

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501606

**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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye		Atrophy	Moderate
Note: The atrophic eye was unilateral and both optic nerves were missing. [ Atrophy TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion Glomerulopathy	Mild Hyaline, Mild
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Hypertrophy	Mild
		Inflammation	Mild
		Necrosis	Minimal
		Pigmentation	Minimal
[ Hepatocellular Adenoma TGLS = 4-11 ] [ Hepatocellular Carcinoma TGLS = 3-11 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 356	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 670
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501606

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary Note: The cyst contained clotted blood. [ Cyst TGLS = 2-10 ]		Cyst	Moderate
* Spleen [ Lymphoma Malignant TGLS = 6-13 ]		Lymphoma Malignant	
Tongue [ Squamous Cell Carcinoma TGLS = 5-12 ]		Squamous Cell Carcinoma	
* Uterus Endometrium		Hyperplasia	Cystic, Mild

---

PRIMARY CAUSE OF DEATH - Eye Atrophy

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 357	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501607

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
* Ovary	Olfactory Epi	Metaplasia	Moderate
		Atrophy	Moderate
		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 1-6 ]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 4-12 ]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 358	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501608

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Pancreas		Cytoplasmic Alteration	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Mild
	[ Hyperplasia TGLS = 5-13 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 359

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501609

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Inflammation	Mild
	Olfactory Epi	Metaplasia	Mild
* Ovary		Atrophy	Marked
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 360	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501610

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary Note: One ovary missing.	Olfactory Epi	Metaplasia Atrophy	Moderate Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 361

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501611

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Pigmentation	Minimal
[ Clear Cell Focus TGLS = 3-12 ]			
[ Cyst TGLS = 2-11 ]			
[ Mixed Cell Focus TGLS = 3-12 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-10 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 361	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501611

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 362

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 596

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501612

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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
* Mammary Gland	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Parathyroid Gland                      \* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Hemorrhage	Moderate
[ Hemorrhage TGLS = 4-2 ]			
* Eye	Cornea	Inflammation	Mild
* Heart	Ventricle	Thrombosis	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver		Fatty Change	Diffuse, Moderate
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Vein	Intravascular Hepatocyte	Moderate
		Necrosis	Moderate
[ Hepatocellular Carcinoma TGLS = 2-11 ]			
[ Necrosis TGLS = 3-3+4+5+11+12 ]			
* Lymph Node, Mandibular		Atrophy	Marked
* Lymph Node, Mesenteric		Atrophy	Moderate
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 362	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 596
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501612

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
Note: One ovary missing.			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-4+10 ]			

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PRIMARY CAUSE OF DEATH	- Brain Hemorrhage
CONTRIBUTORY CAUSE OF DEATH	- Liver Necrosis

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 363      **TRT#:** 8      **SEX:** Female      **DAY ON TEST:** 566  
**DOSE:** 150 MG/KG      **DISP:** Natural Death      **HISTO:** 0501613

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Lymphoma Malignant TGLS = 3-12 ]			
[ Lymphoma Malignant TGLS = 4-13 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-10 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-14 ]			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-4 ]			
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Lymphoma Malignant	
[ Hyperplasia TGLS = 10-17 ]			
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	

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

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 364	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501614

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary	Cyst Cystadenoma	Mild
Note: One ovary contained a cyst with clotted blood and some mineralization. The second ovary contained a cystadenoma. [ Cyst TGLS = 1-7 ] [ Cystadenoma TGLS = 1-7 ]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 365

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501615

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Osteosarcoma	
	[ Osteosarcoma TGLS = 1-10 ]		
* Bone Marrow		Myelofibrosis	Mild
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Moderate
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Vein	Intravascular Hepatocyte	Moderate
		Lymphoma Malignant	
		Mixed Cell Focus	
		Pigmentation	Minimal
	[ Cyst TGLS = 2,7,8-11+12+14 ]		
	[ Hepatocellular Adenoma TGLS = 4,5,9-12+13+14 ]		
	[ Hepatocellular Carcinoma TGLS = 3-12 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 365	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501615

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Alveolar/Bronchiolar Carcinoma TGLS = 10-15 ]

* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Pancreas		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 366

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501616

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
	[ Hyperplasia TGLS = 5-12 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 367	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501617

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Minimal
		Mineralization	Minimal
[ Hyperplasia TGLS = 5-12 ]			
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 3-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 368

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501618

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Minimal
		Pigmentation	Mild
[ Cyst TGLS = 3,4-10+11 ]			
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Mild
* Ovary		Atrophy	Marked
Note: One ovary missing.			
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 368	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501618

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thymus		Atrophy	Mild
* Uterus		Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 2-7 ]

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**PRIMARY CAUSE OF DEATH** -  
Animal Note: TGL 1 = NCL (No Corresponding Lesion)

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 369

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501619

**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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye	Cornea	Pigmentation	Minimal
[ Pigmentation TGLS = 1-9 ]			
* Harderian Gland	Epithelium	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear CI, Mild
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal
		Pigmentation	Minimal
[ Mixed Cell Focus TGLS = 2-10 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Nerve	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 369	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501619

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Mild
* Ovary		Atrophy	Marked
* Pancreas		Infiltration Cellular	Mononuclear Cl, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear Cl, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 370	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 2
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Dosing Accident	<b>HISTO:</b> 0501620

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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	* Eye
* 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, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

---

**MISSING**

\* Parathyroid Gland

---

**OBSERVATIONS**

* Esophagus		Perforation	Moderate
[ Perforation TGLS = 1-10 ]			
* Eye			
Note: Both optic nerves missing.			
* Lung	Mediastinum, Serosa	Inflammation	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 371

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501621

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye	Cornea	Inflammation	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Mineralization	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
* Liver	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Necrosis	Minimal
		Pigmentation	Mild

Note: Steins stain for bile pigment was negative, and Gomoris iron stain was negative except for minimal background stain.

[ Cyst TGLS = 3-11 ]

[ Hepatocellular Adenoma TGLS = 2,4-11+12 ]

* Nose	Nerve	Atrophy	Moderate
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 371	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 666
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501621

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Moderate
* Ovary			
Note: One ovary missing.			
* Skin		Fibrosarcoma	
Note: The tumor affected the eyelid.			
[ Fibrosarcoma TGLS = 1-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Moderate
		Infiltration Cellular	Mononuclear CI, Minimal

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**PRIMARY CAUSE OF DEATH** - Skin Fibrosarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 372

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501622

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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	* Mammary Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 4-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Minimal
		Clear Cell Focus	
* Liver	Bile Duct	Cyst	Moderate
		Fatty Change	Focal, Mild
	Portal	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Necrosis	Mild
		Pigmentation	Minimal

[ Cyst TGLS = 2,3-11+12 ]

[ Hepatocellular Adenoma TGLS = 1-10 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 372	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501622

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Granulosa Cell Tumor Malignant	
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
	[ Hyperplasia TGLS = 5-13 ]		
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 373

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501623

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Atrophy	Mild
* Clitoral Gl			
Note: One clitoral gland missing.			
* Harderian Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Heart		Mineralization	Mild
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Moderate
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:28:23

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 373

**TRT#:** 8

**DOSE:** 150 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0501623

**ORGAN AND ACCOUNTABLE SITE STATUS**

Pigmentation

Mild

Note: Steins stain for bile pigments was negative, and Gomoris iron stain was negative except for minimal background staining.

[ Cyst TGLS = 2-10 ]

[ Eosinophilic Focus TGLS = 3-11 ]

[ Fatty Change TGLS = 3-11 ]

[ Hepatocellular Adenoma TGLS = 3-11 ]

[ Mixed Cell Focus TGLS = 3-11 ]

\* Nose

Nerve

Atrophy

Moderate

Olfactory Epi

Degeneration

Mild

Inflammation

Moderate

Olfactory Epi

Metaplasia

Moderate

Cystadenoma

\* Ovary

[ Cystadenoma TGLS = 1-7 ]

\* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

\* Spleen

Hematopoietic Cell Proliferation

Mild

\* Stomach, Forestomach

Hyperplasia

Squamous, Moderate

Inflammation

Mild

[ Hyperplasia TGLS = 4-12 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 374	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501624

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary [ Cyst TGLS = 1-7 ]	Olfactory Epi	Metaplasia Cyst	Moderate Moderate
* Pituitary Gland [ Hyperplasia TGLS = 5-6 ]	Pars Distalis	Cyst Hyperplasia	Mild Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 375      **TRT#:** 8      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 150 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501625

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Mineralization	Moderate
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Pigmentation	Mild
[ Cyst TGLS = 1-10 ]			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 375

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501625

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 376      **TRT#:** 8      **SEX:** Female      **DAY ON TEST:** 676  
**DOSE:** 150 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 0501626

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Clitoral Gl			
Note: Second clitoral gland missing.			
* Harderian Gland	Epithelium	Hyperplasia	Mild
[ Hyperplasia TGLS = 1-9 ]			
* Heart		Mineralization	Mild
* Intestine Small, Duodenum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-11 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Glomerulus	Congestion	Moderate
		Glomerulopathy	Hyaline, Mild
		Infarct	Mild
		Metaplasia	Osseous, Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Moderate
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Minimal
		Mineralization	Moderate
		Mixed Cell Focus	
		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 376

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 676

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501626

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: The fat in hepatocytes was in a fine lace-like pattern.

[ Fatty Change TGLS = 3-3+4+5+10 ]

Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-13 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-11 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-12 ]			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Moderate
* Pancreas		Atrophy	Mild
		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-4 ]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 8-14 ]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Liver Fatty Change

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 377

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501627

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye		Cataract	Mild
[ Cataract TGLS = 1-9 ]			
* Harderian Gland	Epithelium	Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver	Bile Duct	Cyst	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
	Vein	Intravascular Hepatocyte	Minimal
		Lymphoma Malignant	
		Necrosis	Mild
		Pigmentation	Mild
[ Hepatocellular Carcinoma TGLS = 3-11 ]			
[ Lymphoma Malignant TGLS = 4-4+5+12 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 377	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 703
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501627

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
		Necrosis	Mild
	[ Lymphoma Malignant TGLS = 2-10 ]		
* Thymus		Atrophy	Marked

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

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 378

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 684

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501628

**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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Eye		Atrophy	Marked
Note: Only one eye was affected. [ Atrophy TGLS = 1-9 ]			
* Harderian Gland		Infiltration Cellular Inflammation	Mononuclear CI, Minimal Chronic Active, Moderate
* Kidney		Glomerulopathy Nephropathy	Hyaline, Minimal Mild
* Liver	Bile Duct Oval Cell Vein	Hyperplasia Hyperplasia Intravascular Hepatocyte Mixed Cell Focus	Mild Mild Mild
* Lung		Pigmentation Pigmentation Sarcoma	Minimal Mild Metastatic (Skin)
* Nose	Nerve Olfactory Epi Olfactory Epi	Atrophy Degeneration Metaplasia	Mild Minimal Mild
* Ovary		Atrophy	Marked
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 378	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 684
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501628

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Skin		Sarcoma	
[ Sarcoma TGLS = 2-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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PRIMARY CAUSE OF DEATH	- Skin Sarcoma
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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 379

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501629

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Eye	Antr Chamber	Inflammation	Mild
[ Inflammation TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Moderate
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Pigmentation	Mild
[ Cyst TGLS = 3,7-10+13 ]			
[ Eosinophilic Focus TGLS = 4-11 ]			
[ Hepatocellular Adenoma TGLS = 6-11 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 379

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501629

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
		Cyst	Moderate
<p>Note: The ovarian cyst contained clotted blood.            [ Cyst TGLS = 2-7 ]</p>			
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
<p>[ Hyperplasia TGLS = 5-12 ]</p>			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 380	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501630

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Mild
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 381

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501631

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.			
* Liver	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Pigmentation	Mild

[ Cyst TGLS = 4-11 ]

[ Eosinophilic Focus TGLS = 3-10 ]

[ Hepatocellular Adenoma TGLS = 2,6,8-10+12+13 ]

[ Mixed Cell Focus TGLS = 5,7-12+13 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 381	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501631

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 382	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501632

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
	[ Angiectasis TGLS = 3-6 ]		
	[ Hyperplasia TGLS = 3-6 ]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Mild
	[ Hyperplasia TGLS = 6-13 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH -

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Animal Note: TGL 1 = NCL (No Corresponding Lesion)

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 383

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501633

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Sarcoma	Mild Metastatic (Skeletal Muscle)
* Clitoral GI			
Note: One clitoral gland missing.			
* Harderian Gland		Infiltration Cellular Sarcoma	Mononuclear CI, Minimal Metastatic (Skeletal Muscle)
* Intestine Large, Colon		Sarcoma	Metastatic (Skeletal Muscle)
* Intestine Large, Rectum			
* Kidney	Glomerulus	Congestion Glomerulopathy Nephropathy Sarcoma	Minimal Hyaline, Mild Mild Metastatic (Skeletal Muscle)
* Liver	Bile Duct	Cyst Eosinophilic Focus Hepatocellular Adenoma	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia Inflammation	Mild Minimal
	Vein	Intravascular Hepatocyte Pigmentation	Mild Mild
[ Hepatocellular Adenoma TGLS = 4-12 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 383      **TRT#:** 8      **SEX:** Female      **DAY ON TEST:** 729  
**DOSE:** 150 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 0501633

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Sarcoma	Metastatic (Skeletal Muscle)
Mesentery		Sarcoma	Metastatic (Skeletal Muscle)
[ Sarcoma TGLS = 2-11 ]			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Moderate
		Atrophy	Marked
* Ovary			
Note: One ovary missing.			
* Pancreas		Sarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle		Sarcoma	
[ Sarcoma TGLS = 3-10 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Sarcoma	Metastatic (Skeletal Muscle)
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Test Compound: Pulegone  
 CAS Number: 89-82-7

Date Report Requested: 10/22/2014  
 Time Report Requested: 00:28:23  
 First Dose M/F: NA / NA  
 Lab: BAT

ANIMAL ID: 384      TRT#: 8      SEX: Female      DAY ON TEST: 729  
 DOSE: 150 MG/KG      DISP: Terminal Sacrifice      HISTO: 0501634

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
		Mineralization	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		Necrosis	Minimal
		Pigmentation	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 384	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501634

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Cyst TGLS = 2,3-10+11 ]

* Nose	Nerve Olfactory Epi Olfactory Epi	Atrophy Degeneration Metaplasia	Moderate Minimal Moderate
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation Hyperplasia	Minimal Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH -

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Animal Note: TGL 1 = NCL (No Corresponding Lesion)

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 385

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501635

**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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Moderate
* Eye	Cornea	Inflammation	Moderate
Note: Inflammatory cells were present in the anterior chamber. [ Inflammation TGLS = 1-9 ]			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
* Liver		Angiectasis	Mild
	Bile Duct	Clear Cell Focus	
		Cyst	Moderate
		Eosinophilic Focus	
	Bile Duct	Fatty Change	Focal, Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hyperplasia	Minimal
		Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Pigmentation	Minimal

[ Clear Cell Focus TGLS = 5-12 ]  
 [ Cyst TGLS = 3,4-10+11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 385	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501635

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Eosinophilic Focus TGLS = 5-12 ]  
[ Fatty Change TGLS = 5-12 ]  
[ Mixed Cell Focus TGLS = 2-10 ]

* Nose	Nerve Olfactory Epi Olfactory Epi	Atrophy Degeneration Metaplasia	Moderate Minimal Moderate
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 386

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 150 MG/KG

**DISP:** Natural Death

**HISTO:** 0501636

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Inflammation	Mild Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Histiocytic Sarcoma Necrosis	Moderate
* Kidney	Glomerulus	Congestion	Minimal
* Liver	Bile Duct	Cyst Fibrosis Hepatocellular Carcinoma Histiocytic Sarcoma	Moderate Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Vein	Intravascular Hepatocyte Necrosis Pigmentation	Minimal Moderate Minimal
	[ Hepatocellular Carcinoma TGLS = 2-10 ]		
	[ Histiocytic Sarcoma TGLS = 3-3+4+5+11 ]		
	[ Necrosis TGLS = 3-3+4+5+11 ]		
* Lung		Hepatocellular Carcinoma Histiocytic Sarcoma	Metastatic (Liver)
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 386	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 716
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0501636

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Inflammation	Mild
		Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
	[ Hyperplasia TGLS = 4-12 ]		
* Thymus		Atrophy	Moderate
		Histiocytic Sarcoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

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PRIMARY CAUSE OF DEATH	- Liver	Hepatocellular Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Liver	Histiocytic Sarcoma

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 387

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501637

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye	Cornea	Inflammation	Moderate
[ Inflammation TGLS = 1-9 ]			
* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Mineralization	Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Minimal
Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.			
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal
		Pigmentation	Mild

[ Hepatocellular Adenoma TGLS = 3-11 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 387	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501637

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-12 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-10 ]		
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
	[ Hyperplasia TGLS = 5-13 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 388	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501638

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-10 ]		
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 389

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 589

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501639

**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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Eye		Atrophy	Marked
	Choroid, Sclera	Inflammation	Moderate
	[ Atrophy TGLS = 3-9 ]		
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLS = 2-11 ]		
* Liver		Fatty Change	Focal, Minimal
	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	
	Vein	Hypertrophy	Minimal
		Intravascular Hepatocyte	Mild
		Pigmentation	Minimal
	[ Hepatocellular Carcinoma TGLS = 1-10 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH** - Harderian Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 390

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501640

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Pigmentation	Mild

Note: Steins stain for bile pigments was negative, and Gomoris iron stain was negative except for minimal background staining.

[ Cyst TGLS = 1-10 ]

[ Hepatocellular Adenoma TGLS = 2-11 ]

* Nose	Nerve	Atrophy	Moderate
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 390	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501640

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Pancreas		Cytoplasmic Alteration	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Squamous Cell Papilloma	
		Ulcer	Minimal
	[ Hyperplasia TGLS = 3-12 ]		
	[ Squamous Cell Papilloma TGLS = 3-12 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 391

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501641

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: One ovary missing.

\* Salivary Glands

\* Spleen

\* Stomach, Forestomach

[ Hyperplasia TGLS = 6-13 ]

Tooth

\* Urinary Bladder

\* Uterus

Endometrium

Infiltration Cellular

Hematopoietic Cell Proliferation

Hyperplasia

Inflammation

Ulcer

Dysplasia

Infiltration Cellular

Hyperplasia

Mononuclear CI, Minimal

Mild

Squamous, Moderate

Mild

Mild

Minimal

Mononuclear CI, Minimal

Cystic, Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 392

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 404

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501642

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Glomerulopathy	Hyaline, Marked

Note: Liebs crystal violet and Bennholds Congo Red stain were also run with negative results for amyloid.

Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.

Note: Glomeruli had the morphologic appearance of classical amyloid deposits although special stains did not confirm that the deposits were amyloid.

[ Glomerulopathy TGLS = 1-4 ]

* Liver	Centrilobular, Hepatocyte	Hypertrophy	Minimal
* Lymph Node, Mandibular		Atrophy	Mild
* Nose	Nerve	Atrophy	Mild
	Olfactory Epi	Metaplasia	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
	Red Pulp	Atrophy	Mild
		Pigmentation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Inflammation	Mild

[ Hyperplasia TGLS = 2-10 ]

* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH** - Kidney Glomerulopathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 392

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 404

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501642

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 393

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501643

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 394

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501644

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Pituitary Gland	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Hemangiosarcoma	
* Eye	Cornea	Inflammation	Moderate
[ Inflammation TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Mild

Note: Some glomeruli had the morphologic appearance of classical amyloid deposits although special stains did not confirm that the deposits were amyloid.

Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.

Note: Liebs crystal violet and Bennis Congo Red stain were also run with negative results for amyloid.

* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 394	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501644

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Necrosis	Minimal
		Pigmentation	Mild
[ Cyst TGLS = 2-10 ]			
[ Eosinophilic Focus TGLS = 3,4-11+12 ]			
[ Hepatocellular Adenoma TGLS = 5,6-13 ]			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Inflammation	Moderate
		Ulcer	Mild
[ Hyperplasia TGLS = 7-14 ]			
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
<b>PRIMARY CAUSE OF DEATH</b>	-		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 395

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501645

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland	Epithelium	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Moderate
		Mixed Cell Focus	
		Necrosis	Minimal
		Pigmentation	Mild

[ Clear Cell Focus TGLS = 5-13 ]  
 [ Cyst TGLS = 2,3-3+10+11 ]  
 [ Eosinophilic Focus TGLS = 5-13 ]  
 [ Hepatocellular Adenoma TGLS = 4,5-12+13 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 395	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501645

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 1-7 ]		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 396

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501646

**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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pituitary Gland	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Eye	Cornea	Inflammation	Minimal
[ Inflammation TGLS = 1-9 ]			
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-9 ]			
* Liver	Bile Duct	Cyst	Mild
		Hepatoblastoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Minimal
		Pigmentation	Mild
[ Cyst TGLS = 3,4-10+11 ]			
[ Hepatoblastoma TGLS = 5-12 ]			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 396

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501646

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Inflammation	Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 397

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 589

**DOSE:** 150 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0501647

**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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye	Cornea	Inflammation	Moderate
* Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Necrosis	Minimal
		Pigmentation	Mild
Note: Steins stain for bile pigment was negative, and Gomoris iron stain was negative except for minimal background staining.			
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Moderate
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 397	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 589
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0501647

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 2-7 ]			

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**PRIMARY CAUSE OF DEATH** - Harderian Gland Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 398

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501648

**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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral GI			
Note: One clitoral gland missing.			
* Eye	Cornea	Inflammation	Mild
[ Inflammation TGLS = 1-9 ]			
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Moderate
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Vein	Intravascular Hepatocyte	Mild
		Pigmentation	Mild
[ Cyst TGLS = 2-10 ]			
[ Eosinophilic Focus TGLS = 4-11 ]			
[ Hepatocellular Adenoma TGLS = 5-11 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-10 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 398

**TRT#:** 8

**DOSE:** 150 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731

**HISTO:** 0501648

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 399

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501649

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* 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	* Mammary Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Mild
* Eye	Cornea	Inflammation	Minimal
	[ Inflammation TGLS = 3-9 ]		
* Harderian Gland		Adenoma	
	[ Adenoma TGLS = 4-9 ]	Lymphoma Malignant	
* Heart		Lymphoma Malignant	
		Mineralization	Mild
* Kidney	Glomerulus	Congestion	Mild
		Glomerulopathy	Hyaline, Mild
		Lymphoma Malignant	
		Metaplasia	Osseous, Minimal
		Note: Basement membrane, trichrome, and PAS stains were run. PAS and trichrome staining increased in glomeruli. Other stain was like control. Congo Red negative.	
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Vein	Intravascular Hepatocyte	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 399	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501649

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Lymphoma Malignant Pigmentation	Mild
Note: Steins stain for bile pigment was negative, and Gomoris iron stain was negative except for minimal background staining. [ Cyst TGLS = 2-10 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Lymphoma Malignant	
* Nose	Nerve	Atrophy	Moderate
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Moderate
* Ovary		Atrophy	Marked
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-10 ]			
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 400

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0501650

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Minimal
* Gallbladder		Infiltration Cellular	Mononuclear CI, Mild
* Kidney	Glomerulus	Congestion	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Cyst	Moderate
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Minimal
	Vein	Intravascular Hepatocyte	Mild
		Mixed Cell Focus	
		Necrosis	Minimal
		Pigmentation	Minimal

[ Cyst TGLS = 1-10 ]

[ Hepatocellular Adenoma TGLS = 3-12 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Pulegone  
**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:28:23  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 400	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 150 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0501650

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Mixed Cell Focus TGLS = 2-11 ]

* Nose	Nerve Olfactory Epi Olfactory Epi	Atrophy Degeneration Metaplasia	Moderate Mild Moderate
* Ovary		Atrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH

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**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE