

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C99020
<b>Lock Date:</b>	10/24/2001
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 101

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107001

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mononuclear CI, Minimal
* Lung	Interstitialium	Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 102	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107002

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mononuclear CI, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-6 ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 103	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107003

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Liver
---------	---------

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Lung	Interstitial	Inflammation	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 104

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107004

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mononuclear CI, Minimal
* Lung	Interstitialium	Inflammation	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 105

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107005

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mononuclear CI, Minimal
* Lung	Interstitialium	Inflammation	Minimal
Testes		Atrophy	Marked

Note: Atrophy of left testis. Low-grade chronic inflammation and focal mineralization also noted in left testis. Right testis is normal (see slide 6).

[ Atrophy TGLS = 1-6 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 201

**TRT#:** 3

**DOSE:** 37.5 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107006

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 202

**TRT#:** 3

**DOSE:** 37.5 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107007

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 203

**TRT#:** 3

**DOSE:** 37.5 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107008

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 204

**TRT#:** 3

**DOSE:** 37.5 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107009

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 205

**TRT#:** 3

**DOSE:** 37.5 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107010

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 301

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107011

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 302

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107012

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 303

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107013

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 304

**TRT#:** 5

**DOSE:** 75 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107014

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 305

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107015

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**OBSERVATIONS**

Lymph Node

Hemorrhage

Acute, Moderate

Note: pancreatic lymph node hemorrhage, acute

[ Hemorrhage TGLS = 1-6 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 401

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107016

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 402

**TRT#:** 7

**DOSE:** 150 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107017

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Necrosis

Vacuolization Cytoplasmic

Mononuclear CI, Minimal

Minimal

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 403

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107018

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 404

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107019

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 405

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107020

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 501

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 3

**DOSE:** 300 MG/KG

**DISP:** Natural Death

**HISTO:** 0107021

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

Necrosis

Moderate

Vacuolization Cytoplasmic

Moderate

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 502

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 4

**DOSE:** 300 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0107022

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

Necrosis

Moderate

Vacuolization Cytoplasmic

Moderate

Note: Necrosis accounts for the pale discoloration. Hemorrhage and necrosis accounts for the mottled red focus (TGL2).

[ Necrosis TGLS = 1,2-5+6 ]

Pancreas

Inflammation

Minimal

[ Inflammation TGLS = 3-6 ]

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 503

**TRT#:** 9  
**DOSE:** 300 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 3  
**HISTO:** 0107023

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular  
Necrosis  
Vacuolization Cytoplasmic

Mononuclear CI, Minimal  
Mild  
Moderate

[ Necrosis TGLS = 1-5 ]

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 504

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 3

**DOSE:** 300 MG/KG

**DISP:** Natural Death

**HISTO:** 0107024

---

**OBSERVATIONS**

\* Liver

Necrosis

Minimal

Vacuolization Cytoplasmic

Mild

Note: Necrosis accounts for pale discoloration noted at necropsy (TGL1).

[ Necrosis TGLS = 1-5 ]

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 505

**TRT#:** 9  
**DOSE:** 300 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 3  
**HISTO:** 0107025

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular  
Necrosis  
Vacuolization Cytoplasmic

Mononuclear CI, Minimal  
Mild  
Mild

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 601	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 2
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0107026

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain \* Kidney

---

**OBSERVATIONS**

* Liver		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Minimal

---

**PRIMARY CAUSE OF DEATH** - Liver Vacuolization Cytoplasmic

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 602	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 2
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0107027

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain \* Kidney

---

**OBSERVATIONS**

* Liver	Hepatodiaphragmatic Nodule	
	Infiltration Cellular	Mononuclear CI, Minimal
	Necrosis	Minimal
	Vacuolization Cytoplasmic	Mild

[ Hepatodiaphragmatic Nodule TGLS = 1-5 ]

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
--------	----------	-----------------------	---------------------

---

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 603	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 3
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0107028

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney	* Lung
---------	----------	--------

---

**OBSERVATIONS**

* Liver	Infiltration Cellular	Mononuclear CI, Minimal
	Necrosis	Mild
	Vacuolization Cytoplasmic	Mild
Thymus	Hemorrhage	Mild
	Necrosis	Acute, Mild

[ Hemorrhage TGLS = 1-6 ]

---

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 604	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 2
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0107029

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain \* Kidney

---

**OBSERVATIONS**

* Liver		Necrosis	Minimal
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Minimal

---

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 605	<b>TRT#:</b> 11	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 3
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0107030

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

---

**OBSERVATIONS**

Esophagus		Hemorrhage	Acute, Mild
Note: Acute submucosal/periesophageal hemorrhage accounts for the dark discoloration noted at necropsy. [ Hemorrhage TGLS = 1-6 ]			
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mononuclear CI, Minimal
		Necrosis	Moderate
		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Minimal

---

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 151	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0107031

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Brain	* Kidney
---------	----------

---

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mononuclear CI, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 152

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107032

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

\* Lung

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 153

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17  
**HISTO:** 0107033

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mononuclear CI, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 154

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17  
**HISTO:** 0107034

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mononuclear CI, Minimal
* Lung	Interstitialium	Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 155

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17  
**HISTO:** 0107035

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mononuclear CI, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-7 ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Minimal
Lymph Node		Hyperplasia	Mild
Note: pancreatic lymph node hyperplasia			
[ Hyperplasia TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 251

**TRT#:** 4

**DOSE:** 37.5 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107036

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 252

**TRT#:** 4

**DOSE:** 37.5 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107037

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 253

**TRT#:** 4

**DOSE:** 37.5 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107038

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 254

**TRT#:** 4

**DOSE:** 37.5 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107039

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 255

**TRT#:** 4

**DOSE:** 37.5 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** 0107040

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 351

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107041

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 352

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107042

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 353

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107043

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 354

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107044

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 355

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107045

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 451

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107046

---

**OBSERVATIONS**

\* Liver

Infiltration Cellular

Mononuclear CI, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 452

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107047

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 453

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107048

---

**OBSERVATIONS**

\* Liver

Hepatodiaphragmatic Nodule

Infiltration Cellular

Mononuclear CI, Minimal

[ Hepatodiaphragmatic Nodule TGLS = 1-5 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 454

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107049

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 455

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107050

---

**OBSERVATIONS**

\* Liver

Hematopoietic Cell Proliferation

Minimal

Bile Duct

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 551

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0107051

---

**OBSERVATIONS**

\* Liver

Degeneration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 552

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 3

**DOSE:** 300 MG/KG

**DISP:** Natural Death

**HISTO:** 0107052

---

**OBSERVATIONS**

\* Liver

Necrosis

Mild

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 553

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 3

**DOSE:** 300 MG/KG

**DISP:** Natural Death

**HISTO:** 0107053

---

**OBSERVATIONS**

\* Liver

Necrosis

Minimal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 554

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 4

**DOSE:** 300 MG/KG

**DISP:** Natural Death

**HISTO:** 0107054

---

**OBSERVATIONS**

\* Liver

Necrosis

Mild

Vacuolization Cytoplasmic

Moderate

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 555

**TRT#:** 10  
**DOSE:** 300 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 3  
**HISTO:** 0107055

---

**OBSERVATIONS**

\* Liver

Necrosis  
Vacuolization Cytoplasmic

Moderate  
Moderate

Note: Necrosis accounts for the pale discoloration noted in TGL1.

[ Necrosis TGLS = 1-5 ]

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 651	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 3
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0107056

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

---

**OBSERVATIONS**

Intestine Small, Duodenum [ Inflammation TGLS = 2-6 ]	Inflammation	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hematopoietic Cell Proliferation	Minimal
	Hepatodiaphragmatic Nodule	
	Necrosis	Minimal
	Vacuolization Cytoplasmic	Mild
[ Hepatodiaphragmatic Nodule TGLS = 1-6 ]		
* Lung	Interstitial Inflammation	Minimal

---

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 652

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 2

**DOSE:** 600 MG/KG

**DISP:** Natural Death

**HISTO:** 0107057

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Kidney

---

**OBSERVATIONS**

\* Liver

Necrosis

Mild

Vacuolization Cytoplasmic

Mild

\* Lung

Interstitialium

Inflammation

Minimal

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 653	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 2
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0107058

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Necrosis	Mild
		Vacuolization Cytoplasmic	Mild
* Lung	Interstitial	Inflammation	Minimal

---

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 12:20:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 654	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 2
	<b>DOSE:</b> 600 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0107059

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain \* Kidney

---

**OBSERVATIONS**

* Liver		Necrosis	Minimal
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Minimal

---

**PRIMARY CAUSE OF DEATH** - Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99020-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Pulegone

**CAS Number:** 89-82-7

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 12:20:08

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 655

**TRT#:** 12

**DOSE:** 600 MG/KG

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:** 3

**HISTO:** 0107060

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Lung

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Necrosis

Minimal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

- Liver Necrosis

---

**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE