

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

C Number:	C99020
Lock Date:	09/27/2002
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 94 HISTO: 0201401
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------|-----------------|-----------------------|---------------------|
| * Heart | | Cardiomyopathy | Mild |
| | | Mineralization | Minimal |
| * Kidney | Renal Tubule | Casts Protein | Minimal |
| * Lung | Interstitialium | Infiltration Cellular | Lymphocyte, Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------|--------------|-----------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney		Accumulation, Hyaline Droplet	Minimal
	Renal Tubule	Regeneration	Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 94
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Liver			
Note: Inflammation noted focally on slide 6.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 5	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 94 HISTO: 0201405
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Capsule	Fibrosis	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Regeneration	Minimal
* Lung	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|----------------|-----------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Casts Protein | Minimal |
| | | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| * Lung | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Pituitary Gland | Chromophobe CL | Hyperplasia | Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8	TRT#: 1 DOSE: 0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 94 HISTO: 0201408
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------------------|--------------|-------------------------------|----------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Eye | | | |
| Note: both optic nerves missing | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| Note: Single parasite noted in lumen. | | | |
| * Kidney | | Accumulation, Hyaline Droplet | Minimal |
| | Renal Tubule | Casts Protein | Minimal |
| | | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| * Lung | Interstitial | Infiltration Cellular | Lymphocyte, Minimal |
| * Preputial Gland | | Inflammation | Suppurative, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 94
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
	Myocardium	Pigmentation	Hemosiderin, Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Lung	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 10	TRT#: 1	SEX: Male	DAY ON TEST: 94
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Accumulation, Hyaline Droplet	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Lung	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal
* Urinary Bladder		Infiltration Cellular	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 11

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Stomach, Glandular

Brain

Liver

Lung

OBSERVATIONS

Heart
Kidney

Cardiomyopathy
Mineralization

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 12

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Stomach, Glandular

Brain

Liver

Lung

OBSERVATIONS

Heart
Kidney

Renal Tubule

Cardiomyopathy
Regeneration

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13	TRT#: 3	SEX: Male	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Liver	Lung
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14	TRT#: 3	SEX: Male	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Liver	Lung	Stomach, Glandular
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OBSERVATIONS

Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 15	TRT#: 3	SEX: Male	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Liver	Lung
Stomach, Glandular			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Testes	Germinal Epith	Degeneration	Moderate
[Degeneration TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16	TRT#: 3	SEX: Male	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Heart	Liver
Lung			

OBSERVATIONS

Kidney	Renal Tubule	Casts Protein	Mild
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 17	TRT#: 3	SEX: Male	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Heart	Liver
Lung	Stomach, Glandular		

OBSERVATIONS

Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Testes	Germinal Epith	Degeneration	Mild
[Degeneration TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 18	TRT#: 3	SEX: Male	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Lung
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]			
Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 19	TRT#: 3	SEX: Male	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Lung	Stomach, Glandular
-------------	-------	------	--------------------

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Casts Protein	Mild
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatodiaphragmatic Nodule	

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 20

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Stomach, Glandular

Brain

Liver

Lung

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Renal Tubule

Casts Protein

Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 21

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Heart

Liver

Lung

Stomach, Glandular

OBSERVATIONS

Kidney

Renal Tubule

Regeneration

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Brain	Liver	Stomach, Glandular
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Accumulation, Hyaline Droplet	Minimal
	Renal Tubule	Casts Protein	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Brain	Liver	Lung
Stomach, Glandular			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 24	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Liver	Stomach, Glandular
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Brain	Lung	Stomach, Glandular
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatodiaphragmatic Nodule	

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Liver
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Stomach, Glandular		Mineralization	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Brain	Liver
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Stomach, Glandular		Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Liver
-------	-------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Stomach, Glandular		Mineralization	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 29	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain

Heart

Lung

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-7]			
Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30	TRT#: 5	SEX: Male	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Liver	Lung
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	* Stomach, Glandular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung	Interstitialium	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Lung	* Stomach, Glandular	* Thymus
-------	------	----------------------	----------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Mineralization	Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 34

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	Lung	* Stomach, Glandular
* Thymus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Brain	Lung	* Stomach, Glandular
* Thymus			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 36	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	* Stomach, Glandular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney		Accumulation, Hyaline Droplet	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 37	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	* Stomach, Glandular	* Thymus
-------	---------	----------------------	----------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	* Stomach, Glandular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 39	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	Lung	* Thymus
-------	---------	------	----------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Mineralization	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Regeneration	Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 40	TRT#: 7	SEX: Male	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	Lung	* Stomach, Glandular
* Thymus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 41	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Heart	Lung	* Stomach, Glandular
* Thymus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 42	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Lung	* Stomach, Glandular
-------	------	----------------------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 43	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Lung	* Thymus
-------	------	----------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Lung	* Stomach, Glandular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Hepatocyte	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 45	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Lung	* Stomach, Glandular	* Thymus
-------	------	----------------------	----------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 46	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Stomach, Glandular	* Thymus
-------	----------------------	----------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
Lung	Interstitialium	Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Lung	* Thymus
-------	------	----------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 48	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Heart	Lung	* Stomach, Glandular
* Thymus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 49	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Brain	Heart	Lung	* Stomach, Glandular
* Thymus			

OBSERVATIONS			
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 50	TRT#: 9	SEX: Male	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain * Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
Note: Microscopically, an HDN could not be found in slides 14 and 14I. After examining the wet tissues, the suspected HDN was rather a small curved part of lobe.			
Lung	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|--------------|----------------|------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Eye | | Inflammation | Acute, Minimal |
| Note: Inflammation limited to periocular connective tissue. | | | |
| * Harderian Gland | | Inflammation | Acute, Minimal |
| Note: Inflammation also found within periocular connective tissue (one eye only). | | | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Mineralization | Minimal |
| * Kidney | Renal Tubule | Casts Protein | Mild |
| | | Glomerulopathy | Hyaline, Minimal |
| | | Mineralization | Minimal |
| * Liver | Periportal | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | Oval Cell | Hyperplasia | Minimal |
| | Hepatocyte | Hypertrophy | Mild |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|--------------|-----------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Casts Protein | Moderate |
| | | Glomerulopathy | Hyaline, Minimal |
| | | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| * Liver | Periportal | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | Oval Cell | Hyperplasia | Minimal |
| | Hepatocyte | Hypertrophy | Mild |
| * Lung | Interstitial | Infiltration Cellular | Lymphocyte, Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
		Mineralization	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic Active, Mild
		Mineralization	Minimal
	Hepatocyte	Necrosis	Focal, Minimal
		Pigmentation	Minimal

Note: Mineralization noted focally in one subcapsular region (slide 06).

Note: Inflammation is a continuum of necrosis.

Note: Pigment noted focally in capsule and subjacent parenchyma (slide 06).

* Lung		Infiltration Cellular	Histiocyte, Minimal
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201453

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Suppurative, Minimal
* Salivary Glands	Metaplasia	Squamous, Focal, Minimal
* Stomach, Glandular	Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 54

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Casts Protein	Moderate
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	Hepatocyte	Necrosis	Focal, Minimal
Note: Hepatocellular necrosis found in regions of inflammation.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Mineralization	Minimal
* Urinary Bladder		Mineralization	Minimal

Note: mineralization of serosal vessel

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye			
Note: optic nerves missing			
* Heart		Cardiomyopathy	Minimal
		Mineralization	Minimal
* Kidney	Renal Tubule	Casts Protein	Moderate
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Renal Tubule	Regeneration	Minimal
	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	Hepatocyte	Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Necrosis	Lymphoid, Minimal
* Preputial Gland		Infiltration Cellular	Mononuclear Cl, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201455

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-----------------------|--------------|-----------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Epididymis | | Inflammation | Granulomatous, Mild |
| Note: sperm granuloma | | | |
| * Heart | | Mineralization | Minimal |
| * Kidney | Renal Tubule | Casts Protein | Moderate |
| | | Glomerulopathy | Hyaline, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| * Liver | Periportal | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | Oval Cell | Hyperplasia | Minimal |
| | Hepatocyte | Hypertrophy | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 57

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|--------------|-----------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| | | Mineralization | Minimal |
| * Kidney | Renal Tubule | Casts Protein | Moderate |
| | | Glomerulopathy | Hyaline, Minimal |
| | | Mineralization | Minimal |
| * Liver | Renal Tubule | Regeneration | Minimal |
| | Periportal | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | Oval Cell | Hyperplasia | Minimal |
| | Hepatocyte | Hypertrophy | Mild |
| | Hepatocyte | Necrosis | Focal, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Casts Protein	Moderate
		Glomerulopathy	Hyaline, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	Hepatocyte	Necrosis	Focal, Minimal
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 11

SEX: Male

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
		Mineralization	Minimal
* Kidney	Renal Tubule	Casts Protein	Moderate
		Glomerulopathy	Hyaline, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	Hepatocyte	Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Basophilic Focus	Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 60	TRT#: 11	SEX: Male	DAY ON TEST: 94
	DOSE: 150 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Moderate
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 61

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* 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

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
* Lung	Interstitialium	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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 | * Kidney | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------|---|----------------------------|---------------------|
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLS = 1-6] | | |
| * Lung | Interstitialium | Infiltration Cellular | Lymphocyte, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 63

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | |
|----------|----------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Uterus	Dilatation	Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 65

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Cerebellum	Dysplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Lung	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
* Urinary Bladder		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 66

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Ovary

Cyst

Note: Cystic ovarian bursa accounts for the gross finding.

[Cyst TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 67

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 68	TRT#: 2	SEX: Female	DAY ON TEST: 94
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Lung	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Uterus		Dilatation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 69

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Minimal
* Pancreas		

Note: Minimal hemosiderin pigment noted in pancreatic lymph node.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 2

SEX: Female

DAY ON TEST: 94

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Eye
* 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, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Esophagus		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Serosa	Fibrosis	Minimal
Note: Focal fibrosis of liver capsule (slide 07).			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 71

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

* Stomach, Glandular

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 72

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73	TRT#: 4	SEX: Female	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Lung	Ovary
Uterus			

OBSERVATIONS

Heart	Cardiomyopathy	Minimal
Kidney	Mineralization	Minimal
Liver	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]		
* Stomach, Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 74

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

Note: Left kidney missing at trim. No section taken of left kidney.

* Stomach, Glandular

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 75

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 76

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 77	TRT#: 4	SEX: Female	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Heart	Lung
Ovary	* Stomach, Glandular	Uterus	

OBSERVATIONS

Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78	TRT#: 4	SEX: Female	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Lung	* Stomach, Glandular
Uterus			

OBSERVATIONS

Heart	Cardiomyopathy	Minimal
Kidney	Mineralization	Minimal
Liver	Inflammation	Chronic Active, Minimal
Ovary	Cyst	

Note: Cystic enlargement of the bursa accounts for the gross observation.

[Cyst TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 4	SEX: Female	DAY ON TEST: 94
	DOSE: 9.375 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Heart	Liver
Lung	* Stomach, Glandular	Uterus	

OBSERVATIONS

Kidney	Mineralization	Minimal
Ovary	Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 80

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: 9.375 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Bone Marrow

Hyperplasia

Minimal

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 81

TRT#: 6

SEX: Female

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 6

SEX: Female

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Kidney

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 83

TRT#: 6

SEX: Female

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Bone Marrow

Hyperplasia

Minimal

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 84

TRT#: 6

SEX: Female

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 85

TRT#: 6

SEX: Female

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86	TRT#: 6	SEX: Female	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Heart	Liver
Lung	Ovary	* Stomach, Glandular	Uterus

OBSERVATIONS

Kidney	Mineralization	Minimal
Liver		

Note: Liver deformity (suspect HDN) was not found microscopically and not observed in the wet tissues.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87	TRT#: 6	SEX: Female	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Heart	Lung
Ovary	* Stomach, Glandular	Uterus	

OBSERVATIONS

Kidney	Mineralization	Minimal
Liver	Hepatodiaphragmatic Nodule	

[Hepatodiaphragmatic Nodule TGLS = 1-13]

PRIMARY CAUSE OF DEATH -

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 88

TRT#: 6

SEX: Female

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Cyst

* Stomach, Glandular

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 89

TRT#: 6

SEX: Female

DAY ON TEST: 94

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90	TRT#: 6	SEX: Female	DAY ON TEST: 94
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Heart	Liver
Lung	Uterus		

OBSERVATIONS

Kidney	Mineralization	Minimal
Ovary	Cyst	
* Stomach, Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 91

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Heart

Liver

Lung

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Cyst

* Stomach, Glandular

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 92	TRT#: 8	SEX: Female	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Brain	Heart	Ovary
Uterus			

OBSERVATIONS

Kidney		Mineralization	Minimal
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]			
Lung		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

Note: Very few mineralized vessels noted in submucosa at glandular-nonglandular junction of stomach.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 93

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Kidney

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94	TRT#: 8	SEX: Female	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Heart	Liver	Lung
* Stomach, Glandular	Uterus		

OBSERVATIONS

* Bone Marrow	Hyperplasia	Minimal
Kidney	Mineralization	Minimal
Ovary	Cyst	
[Cyst TGLS = 1-11]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96	TRT#: 8	SEX: Female	DAY ON TEST: 94
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	Brain	Heart	Ovary
* Stomach, Glandular	Uterus		

OBSERVATIONS

Kidney	Mineralization	Minimal
Liver	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]		
Lung	Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 97

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Heart

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 98

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 99

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 100

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow

Brain

Liver

Lung

Ovary

* Stomach, Glandular

Uterus

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 101

TRT#: 10

SEX: Female

DAY ON TEST: 94

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	Lung	Ovary
* Thymus	Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Mineralization	Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 102

TRT#: 10

SEX: Female

DAY ON TEST: 94

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain
* Stomach, Glandular

* Liver
* Thymus

Lung
Uterus

Ovary

OBSERVATIONS

* Bone Marrow
Heart
* Kidney

Hyperplasia
Cardiomyopathy
Mineralization

Mild
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 103

TRT#: 10

SEX: Female

DAY ON TEST: 94

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain

Heart

* Liver

Lung

Ovary

* Thymus

Uterus

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Kidney

Renal Tubule

Casts Protein

Minimal

* Stomach, Glandular

Mineralization

Minimal

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 104	TRT#: 10	SEX: Female	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	* Stomach, Glandular	* Thymus
Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Ovary		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 105

TRT#: 10

SEX: Female

DAY ON TEST: 94

DOSE: 75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain
* Stomach, Glandular

Heart
* Thymus

* Liver
Uterus

Lung

OBSERVATIONS

* Bone Marrow
* Kidney
Ovary

Hyperplasia
Mineralization
Cyst

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106	TRT#: 10	SEX: Female	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Heart	* Liver	Lung
Ovary	* Thymus	Uterus	

OBSERVATIONS

* Bone Marrow	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
* Stomach, Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107	TRT#: 10	SEX: Female	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Heart	* Liver	Lung
* Thymus	Uterus		

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Mineralization	Minimal
Ovary	Cyst	
* Stomach, Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108	TRT#: 10	SEX: Female	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	* Liver	Lung	Ovary
* Thymus	Uterus		

OBSERVATIONS

* Bone Marrow	Hyperplasia	Minimal
Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Minimal
* Stomach, Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 109	TRT#: 10	SEX: Female	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Heart	* Liver	Lung
Ovary	* Thymus	Uterus	

OBSERVATIONS

* Bone Marrow	Hyperplasia	Minimal
* Kidney	Mineralization	Minimal
* Stomach, Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 110	TRT#: 10	SEX: Female	DAY ON TEST: 94
	DOSE: 75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0201510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Ovary	* Stomach, Glandular	* Thymus
Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03
Test Type: 90-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: 10/20/2014
Time Report Requested: 05:18:49
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 111

TRT#: 12
DOSE: 150 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 94
HISTO: 0201511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
		Mineralization	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Periportal	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	[Hepatodiaphragmatic Nodule TGLS = 1-13]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 112

TRT#: 12

SEX: Female

DAY ON TEST: 9

DOSE: 150 MG/KG

DISP: Natural Death

HISTO: 0201512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * 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, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------|------------|----------------|---------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Mineralization | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Hypertrophy | Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 113

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 114

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Ovary		Cyst	
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein Glomerulopathy Mineralization	Minimal Hyaline, Minimal Minimal
* Liver	Periportal Bile Duct Oval Cell Hepatocyte	Fibrosis Hyperplasia Hyperplasia Hypertrophy	Minimal Mild Minimal Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 116

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * 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, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|------------|----------------|---------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Mineralization | Minimal |
| * Liver | Periportal | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | Oval Cell | Hyperplasia | Minimal |
| | Hepatocyte | Hypertrophy | Mild |
| * Ovary | | Cyst | |
| * Stomach, Glandular | | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * 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, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|------------|----------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Glomerulopathy | Hyaline, Minimal |
| | | Mineralization | Mild |
| * Liver | Periportal | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | Oval Cell | Hyperplasia | Minimal |
| | Hepatocyte | Hypertrophy | Mild |
| * Stomach, Glandular | | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-03

Test Type: 90-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: 10/20/2014

Time Report Requested: 05:18:49

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 94

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: 0201520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Casts Protein	Minimal
		Glomerulopathy	Hyaline, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Periportal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	
* Thyroid Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE