

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

C Number: C99020
Lock Date: 01/06/2006
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 05/28/2008

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* 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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
Note: Special stains (SS) = amyloid negative			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 3-15]			
[Mixed Cell Focus TGLS = 2-14]			
* Pancreas	Acinus	Atrophy	Minimal
	Acinus	Atypia Cellular	Minimal
	Duct	Cyst	Minimal
	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501701

ORGAN AND ACCOUNTABLE SITE STATUS

Note: interstitial cell tumor = unilateral [Adenoma TGLS = 1-11]	Germinal Epith	Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501702

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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
Note: SS = amyloid negative			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
	Pars Distalis	Pigmentation	Minimal
[Angiectasis TGLS = 3-8]			
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 2

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501702

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501703

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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
Note: SS = amyloid negative			
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose		Inflammation	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 4 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 727
DOSE: 0 MG/KG **DISP:** Terminal Sacrifice **HISTO:** 0501704

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	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
Note: SS = amyloid negative			
* Liver		Basophilic Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Goblet Cell	Hyperplasia	Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 653
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501705

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Moderate
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 6 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 728
DOSE: 0 MG/KG **DISP:** Terminal Sacrifice **HISTO:** 0501706

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	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
Note: SS = amyloid negative			
* Liver		Basophilic Focus	
	Portal	Fibrosis	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Hepatocellular Adenoma TGLS = 2-14]			
* Lung	Serosa	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501706

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 692
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Squamous Cell Carcinoma	Metastatic (Nose)
* Eye		Squamous Cell Carcinoma	Metastatic (Nose)
	[Squamous Cell Carcinoma TGLS = 1-10]		
* Harderian Gland		Squamous Cell Carcinoma	Metastatic (Nose)
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Nose	Olfactory Epi	Metaplasia	Respiratory, Mild
		Squamous Cell Carcinoma	
* Pituitary Gland	Pars Distalis	Adenoma	
		Squamous Cell Carcinoma	Metastatic (Nose)
	[Adenoma TGLS = 2-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 692
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501707

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH	- Nose	Squamous Cell Carcinoma	
CONTRIBUTORY CAUSE OF DEATH	- Brain	Squamous Cell Carcinoma	Nose;Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501708

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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Portal	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Salivary Glands		Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Goblet Cell	Hyperplasia	Minimal
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 11

TRT#: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
	Artery	Inflammation	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 6-18]			
[Eosinophilic Focus TGLS = 5-17]			
[Mixed Cell Focus TGLS = 6-18]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2,3-14+15]			
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 11	TRT#: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501711

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-16]	Acinus	Hyperplasia	Moderate
* Preputial Gland	Duct	Ectasia	Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501712

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 Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2,3-14+15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Adenoma	
[Adenoma TGLS = 4-12]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland	* Nose
* Pancreas	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Lymph Node, Mesenteric		Degeneration	Cystic, Mild
Mesentery		Necrosis	Moderate
		[Necrosis TGLS = 2-14]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Note: pituitary tumor is cystic	
		[Adenoma TGLS = 3-8]	
* Prostate		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-11]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:34

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501713

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 412

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0501714

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	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung		Congestion	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
	[Congestion TGLS = 1-3]		
* Nose		Inflammation	Mild
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:34
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-14]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Mild
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Cyst	Marked

Note: cyst is within interstitial cell tumor
 [Adenoma TGLS = 1-11+15]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16	TRT#: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501716

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-15]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501717

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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 701

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501718

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Basophilic Focus TGLS = 4-15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	Subcut Tiss	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 1,2-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5-8]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 18

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 701

HISTO: 0501718

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 29

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * 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 | * Kidney | * 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 | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- * Eye
 - Note: optic nerves on slide 9.
- * Lung
 - Note: PCOD = hemorrhage associated with chylothorax.
- * Thymus
 - [Hemorrhage TGLS = 2-3]

Hemorrhage	Mild
Hemorrhage	Moderate

PRIMARY CAUSE OF DEATH

- Lung Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 4-15]			
* Pancreas		Adenoma	
	Acinus	Hyperplasia	Minimal
[Adenoma TGLS = 3-14]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 20

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501720

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Hyperplasia

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-11]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0500842

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 Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Degeneration	Mild
* Lung	Alveolar Epith	Congestion	Moderate
	Alveolus	Hyperplasia	Minimal
		Inflammation	Histiocytic, Minimal
		Metaplasia	Squamous, Minimal
[Congestion TGLS = 3-3+4]			
* Nose		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 1-11]			
[Atrophy TGLS = 2-11]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Eye			
Note: optic nerves on slide 9 (brain)			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 1-6+7]			
[Mixed Cell Focus TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Stomach, Forestomach		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500845

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild
	[Angiectasis TGLS = 3-15]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-14]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland	Duct	Ectasia	Mild
		[Ectasia TGLS = 1-14]	
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	Hair Follicle	Cyst	Marked
		[Cyst TGLS = 2-15]	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 3-11]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 26

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 727

HISTO: 0500846

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27

TRT#: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0500847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 5-18]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLS = 1-16]			
* Nose		Inflammation	Mild
* Pancreas		Adenoma	
	Acinus	Atrophy	Mild
[Adenoma TGLS = 6-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-15]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 27	TRT#: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500847

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hyperplasia TGLS = 4-17]		Hyperplasia	Lymphoid, Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Minimal Minimal
* Testes Note: adenoma = unilateral [Adenoma TGLS = 2-11]	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 29	TRT#: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500849

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-14]			
[Mixed Cell Focus TGLS = 2-14]			
Mesentery		Necrosis	Mild
[Necrosis TGLS = 3-15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 4-8]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 30	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500850

ORGAN AND ACCOUNTABLE SITE STATUS

Note: adenoma = unilateral
[Adenoma TGLS = 1-11]

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-11]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney	Transit Epithe	Hyperplasia	Marked
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Cystic, Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 32	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500852

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Granuloma Sperm	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis	Dilatation	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 2-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Pancreas	Duct	Cyst	Minimal
	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Rathkes Cleft	Cyst	Marked
Note: remnant cells of Rathkes pouch in pars nervosa.			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-14]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 1-12+14]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500856

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Clear Cell Focus TGLS = 2-14]		
	[Hepatodiaphragmatic Nodule TGLS = 3-15]		
* Nose		Inflammation	Mild
* Preputial Gland		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500857

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 | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------|---------------------------|------------------|----------------------|
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Minimal |
| * Lung | Alveolus | Inflammation | Histiocytic, Minimal |
| * Nose | | Inflammation | Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| | Acinus | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 1-14]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Mesothelioma Malignant	Metastatic (Epididymis)
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Mesothelioma Malignant	Metastatic (Epididymis)
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Mesothelioma Malignant	Metastatic (Epididymis)
* Spleen		Mesothelioma Malignant	Metastatic (Epididymis)
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	Metastatic (Epididymis)

[Adenoma TGLS = 2-11]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500858

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 632

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500859

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
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
* Liver	Centrilobular, Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node		Hematopoietic Cell Proliferation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Basophilic Focus	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 627

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 7-17]			
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6+7]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-17]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 1-14]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 40	TRT#: 1	SEX: Male	DAY ON TEST: 627
	DOSE: 0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500860

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Leukemia Mononuclear	
* Skin	Subcut Tiss	Inflammation	Mild
	[Schwannoma Malignant TGLS = 6-16]	Schwannoma Malignant	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-15]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Brain Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Goblet Cell	Hyperplasia	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Prostate		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-11]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500861

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 699

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0500862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 2-11]		
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Mesothelioma Malignant	Metastatic (Epididymis)
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver	Centrilobular, Hepatocyte	Degeneration	Moderate
		Inflammation	Minimal
		Mesothelioma Malignant	Metastatic (Epididymis)
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Mesothelioma Malignant	Metastatic (Epididymis)
	[Mesothelioma Malignant TGLS = 1-14]		
* Nose		Inflammation	Moderate
* Pancreas		Mesothelioma Malignant	Metastatic (Epididymis)
* Prostate		Mesothelioma Malignant	Metastatic (Epididymis)
* Seminal Vesicle		Mesothelioma Malignant	Metastatic (Epididymis)
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 699

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 0500862

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-11]

PRIMARY CAUSE OF DEATH

- Epididymis Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 43 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 728
DOSE: 0 MG/KG **DISP:** Terminal Sacrifice **HISTO:** 0500863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-14]			
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Adenoma	
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Brain		Astrocytoma Malignant	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
		Inflammation	Chronic Active, Moderate
		[Fibroma TGLS = 1-16]	
		[Inflammation TGLS = 3,4-14+15]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 2-11]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 24

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Lung	Serosa	Hyperplasia	Mild
Note: serosal (mesothelial) hyperplasia due to chylothorax = PCOD			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Lung Serosa Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-11]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-10]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Moderate
	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Preputial Gland		Inflammation	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500867

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Skin		Schwannoma Malignant	
	[Schwannoma Malignant TGLS = 4-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 48

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 709

HISTO: 0500868

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Granuloma Sperm	Mild
* Harderian Gland		Inflammation	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-7]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-15]			
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 49	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500869

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Keratoacanthoma TGLS = 1-14]		Inflammation Keratoacanthoma	Mild
* Testes [Adenoma TGLS = 3-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 1

DOSE: 0 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 727

HISTO: 0500870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6+7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-16]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 6-17]		
* Nose		Inflammation	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 2-8]		
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 50	TRT#: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500870

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLS = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: bilateral interstitial cell tumors			
[Adenoma TGLS = 7-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Epididymis		Mesothelioma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Nose	Olfactory Epi Glands	Degeneration	Minimal
		Dilatation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 52	TRT#: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500872

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Portal	Fibrosis	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 54	TRT#: 3	SEX: Male	DAY ON TEST: 374
	DOSE: 18.75 MG/KG	DISP: Dosing Accident	HISTO: 0500874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, 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	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Esophagus	Periesoph Tiss	Inflammation Perforation	Mild
	[Perforation TGLS = 1-14]		
* Heart		Cardiomyopathy	Minimal
* Liver		Congestion Fatty Change	Mild Minimal
	[Congestion TGLS = 2-6+7]		
* Lung		Congestion	Moderate
	[Congestion TGLS = 3-3+4]		
* Thymus		Inflammation	Mild
* Trachea	Peritrach Tiss	Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
		Hemorrhage	Mild
[Hemorrhage TGLS = 2-6+14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Benign

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 622

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone	Maxilla	Osteosarcoma	
Note: maxillary osteosarcoma extends into brain (slide 15). [Osteosarcoma TGLS = 2-15]			
* Brain		Hemorrhage	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLS = 3-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Bone Maxilla Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Infiltration Cellular	Mononuclear CI, Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
[Clear Cell Focus TGLS = 4-6+7+15]			
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-14]			
* Skin	Subcut Tiss	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 1-16]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500877

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500878

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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-14]		
* Nose		Inflammation	Minimal
* Pancreas		Adenoma	
	Acinus	Atrophy	Mild
	[Adenoma TGLS = 3-15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
	[Pheochromocytoma Benign TGLS = 3-15]		
* Brain		Astrocytoma Malignant	
* Intestine Small, Jejunum		Lipoma	
	[Lipoma TGLS = 4-16]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Leukemia Mononuclear	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Inflammation	Moderate
	[Inflammation TGLS = 2-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500879

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 60	TRT#: 3	SEX: Male	DAY ON TEST: 451
	DOSE: 18.75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500880

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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-14]			
* Testes	Interstit Cell	Adenoma	

Note: adenoma = unilateral

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500881

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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Glands	Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-14]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500882

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	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
Note: Lung carcinoma extends into connective tissue at heart base.			
* Kidney		Nephropathy	Minimal
* Liver	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Alveolar/Bronchiolar Carcinoma	
		Inflammation	Histiocytic, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 3-3]		
Lymph Node	Mediastinal	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-14]		
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500882

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Adenoma	
* Pancreas			
[Adenoma TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Mild
Note: TGL2 = NCL on 14REE			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Spleen		Fibrosis	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500884

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 3-8]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Mild
* Skin		Basal Cell Carcinoma	
	[Basal Cell Carcinoma TGLS = 1-14]		
* Stomach, Glandular		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	Multiple
[Pheochromocytoma Benign TGLS = 5-8]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6,7-6+7+16]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		Leukemia Mononuclear	
Note: TGL10 = axillary lymph node (bilateral)			
[Leukemia Mononuclear TGLS = 9-18]			
[Leukemia Mononuclear TGLS = 10-19]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 66	TRT#: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500886

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-8]	Olfactory Epi Pars Distalis	Metaplasia Adenoma	Respiratory, Minimal
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 1-14]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3-11]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland Tongue [Squamous Cell Papilloma TGLS = 8-17]	C Cell	Hyperplasia Squamous Cell Papilloma	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500887

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	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
		Mixed Cell Focus	
	[Clear Cell Focus TGLS = 5-6+7+17]		
	[Hepatodiaphragmatic Nodule TGLS = 4-16]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Lymph Node	Degeneration	Cystic, Moderate
	[Degeneration TGLS = 3-15]		
* Nose		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLS = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 67	TRT#: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500887

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 682

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Hydrocephalus	Mild
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 2-8]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Stomach, Glandular		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 68	TRT#: 3	SEX: Male	DAY ON TEST: 682
	DOSE: 18.75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500888

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 199

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500889

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 |
| * Kidney | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | |
|--------------------------------------|---------------------------|---------|
| * Adrenal Cortex | Vacuolization Cytoplasmic | Mild |
| * Bone Marrow | Leukemia Mononuclear | |
| * Liver | Leukemia Mononuclear | |
| * Lung | Leukemia Mononuclear | |
| * Nose | Inflammation | Minimal |
| * Spleen | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-14] | | |
| * Thymus | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-14]			
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 2-8]		
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Moderate
	[Hyperplasia TGLS = 3-14]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 7-17]		
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	
		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71	TRT#: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500891

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst Epithelial Inclusion TGLS = 6-16]			
[Squamous Cell Carcinoma TGLS = 5-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
		Inflammation	Minimal
Note: adenoma = unilateral			
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
[Adenoma TGLS = 4-8]			
Tooth	Peridont Tiss	Inflammation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1,2-14+15]			
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Clear Cell Focus TGLS = 3-15]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500894

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 672

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
Note: complex pheochromocytoma			
[Pheochromocytoma Malignant TGLS = 2-14]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Mild
* Salivary Glands		Schwannoma Malignant	Metastatic (Skin)
* Skin	Subcut Tiss	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 1-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[Adenoma TGLS = 5-11]			
[Atrophy TGLS = 4-11]			
* Thymus		Schwannoma Malignant	Metastatic (Skin)
[Schwannoma Malignant TGLS = 3-3]			
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500896

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
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Clear Cell Focus TGLS = 2-6+7+14]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500897

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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 1-14]			
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500897

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-8]			
* Brain		Hydrocephalus	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Moderate
[Fatty Change TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
Oral Mucosa	Pharyngeal	Squamous Cell Carcinoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Inflammation	Minimal
		Ulcer	Marked
Note: TGL5 (wall mass) = ulcer of glandular region			
[Ulcer TGLS = 5-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500898

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Mesothelioma Benign	
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
		Mesothelioma Benign	

Note: adenoma = unilateral

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500899

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500900

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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Moderate
			[Hyperplasia TGLS = 2-14]
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Testes	Interstit Cell	Adenoma	
			Note: adenoma = unilateral
			[Adenoma TGLS = 1-11]
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500902

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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-14]			
[Clear Cell Focus TGLS = 3-15]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 1-16]			
* Nose		Inflammation	Minimal
* Pancreas		Adenoma	
	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500902

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 570

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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	* Pancreas	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Epididymis		Granuloma Sperm	Moderate
[Granuloma Sperm TGLS = 5-11]			
* Heart		Cardiomyopathy	Mild
	Valve	Thrombosis	Minimal
* Kidney		Inflammation	Moderate
[Inflammation TGLS = 2,3-15+16]			
* Liver		Hepatodiaphragmatic Nodule	
	Arteriole	Inflammation	Mild
[Hepatodiaphragmatic Nodule TGLS = 1-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Mild
	Arteriole	Inflammation	Mild
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-11]			

PRIMARY CAUSE OF DEATH

- Heart Valve Thrombosis

CONTRIBUTORY CAUSE OF DEATH

- Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-8]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
[Hemorrhage TGLS = 9-9]			
* Epididymis		Granuloma Sperm	Moderate
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-15]			
[Leukemia Mononuclear TGLS = 7-16]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 84	TRT#: 3	SEX: Male	DAY ON TEST: 713
	DOSE: 18.75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500904

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-17]			
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1,2-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 580

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500905

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	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 1-14]			
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-15]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
[Adenoma TGLS = 2-11]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500906

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
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Carcinoma	
		Nephropathy	Minimal
[Carcinoma TGLS = 3-14]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
* Lung		Carcinoma	Metastatic (Kidney)
[Carcinoma TGLS = 2-3+4]			
Mesentery		Carcinoma	Metastatic (Kidney)
[Carcinoma TGLS = 4-15]			
* Pancreas		Carcinoma	Metastatic (Kidney)
* Pituitary Gland	Pars Distalis	Adenoma	
Note: TGL1 = cystic			
[Adenoma TGLS = 1-8]			
* Stomach, Forestomach		Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
[Adenoma TGLS = 5-11]			
* Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500906

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500907

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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 3,4-15+16]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 5-17]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 2-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Skin		Cyst Epithelial Inclusion	
	Subcut Tiss	Fibroma	
		[Cyst Epithelial Inclusion TGLS = 2-15]	
		[Fibroma TGLS = 1-14]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 3-11]	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500908

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-8]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Inflammation	Minimal
	Hepatocyte	Necrosis	Moderate
Note: TGL2 = hepatocellular necrosis accounts for parenchymal collapse			
[Necrosis TGLS = 2-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Alveolus	Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Moderate
	Acinus	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 728
DOSE: 18.75 MG/KG **DISP:** Terminal Sacrifice **HISTO:** 0500910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Mediastinal	Degeneration	Cystic, Marked
[Degeneration TGLS = 6-14]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-17]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 4,5-15+16]			
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-11]			
[Atrophy TGLS = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500911

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500912

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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500913

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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Preputial Gland	* Salivary Glands	* Skin	* Spleen
* Thymus	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Moderate
* Kidney		Hydronephrosis	Mild
	Cortex	Mineralization	Minimal
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Clear Cell Focus	
	Portal	Fibrosis	Minimal
		Inflammation	Minimal
* Lung	Interstitialium	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
[Inflammation TGLS = 2-13]			
* Seminal Vesicle		Inflammation	Mild
[Inflammation TGLS = 3-13]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94	TRT#: 3	SEX: Male	DAY ON TEST: 644
	DOSE: 18.75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500914

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-14]		Mineralization	Mild
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hemorrhage	Mild
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Moderate
[Hemorrhage TGLS = 4-13]			

PRIMARY CAUSE OF DEATH - Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 639

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500915

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, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Hemorrhage	Mild
		Inflammation	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Inflammation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
Tooth		Odontoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 639

DOSE: 18.75 MG/KG

DISP: Natural Death

HISTO: 0500915

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Intestine Large, Colon Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500916

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	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 3-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Nose		Inflammation	Moderate
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
		Pigmentation	Bile, Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Depletion Cellular	Mild
		Fibrosis	Mild
		[Depletion Cellular TGLS = 1-5]	
		[Fibrosis TGLS = 1-5]	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97	TRT#: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500917

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Eosinophilic Focus TGLS = 4-16]			
[Fatty Change TGLS = 5-17]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Mild
[Necrosis TGLS = 3-15]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	

Note: adenoma = unilateral

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98	TRT#: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 18.75 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500918

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]

* Thymus
Note: thymus found on slide 3

* Thyroid Gland	C Cell	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 18.75 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500919

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 701

DOSE: 18.75 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-14]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
Note: adenoma noted only in one gland			
[Adenoma TGLS = 1-12]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 100	TRT#: 3	SEX: Male	DAY ON TEST: 701
	DOSE: 18.75 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500920

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Preputial Gland Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Heart	Endocardium	Bacterium	
		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
Note: SS = amyloid negative [Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
Oral Mucosa	Pharyngeal	Hyperplasia	Marked
[Hyperplasia TGLS = 3-1]			
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101	TRT#: 5 DOSE: 37.5 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 0500921
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate	Epithelium	Cyst	Mild
Note: carcinomatous cyst			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Mild
[Hyperplasia TGLS = 4-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 697

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500922

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, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Heart	Endocardium	Bacterium Cardiomyopathy	Moderate
	Endocardium	Inflammation Diverticulum	Mild
* Intestine Small, Duodenum [Diverticulum TGLS = 6-16]			
* Kidney		Inflammation Nephropathy Thrombosis	Mild Minimal Moderate
* Liver		Fatty Change Inflammation	Mild Mild
	Hepatocyte	Necrosis	Mild
* Lung		Hemorrhage	Moderate
	Arteriole	Inflammation	Mild
		Inflammation	Mild
	Arteriole	Necrosis	Mild
Mesentery [Necrosis TGLS = 5-15]		Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102	TRT#: 5	SEX: Male	DAY ON TEST: 697
	DOSE: 37.5 MG/KG	DISP: Natural Death	HISTO: 0500922

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Keratoacanthoma TGLS = 1-14]		Keratoacanthoma	
* Spleen		Congestion	Moderate
* Testes [Adenoma TGLS = 2-11]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
		Mineralization	Moderate
* Intestine Large, Colon		Inflammation	Moderate
		Ulcer	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Hepatocyte	Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
		Mixed Cell Focus	
	Hepatocyte	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 103	TRT#: 5	SEX: Male	DAY ON TEST: 637
	DOSE: 37.5 MG/KG	DISP: Natural Death	HISTO: 0500923

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitialium	Mineralization	Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Glomerulopathy Nephropathy	Hyaline, Minimal Marked
Note: SS = amyloid negative [Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte Bile Duct	Cellular Alteration Hyperplasia Inflammation	Diffuse, Mild Minimal Minimal
[Hyperplasia TGLS = 4-6+7]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 5-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 104	TRT#: 5	SEX: Male	DAY ON TEST: 701
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500924

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Mild Minimal Mild
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
[Adenoma TGLS = 2-11] [Atrophy TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-12+14]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500926

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-11]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500927

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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
Note: SS = amyloid negative			
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Adrenal Medulla			
* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-14]			
* Nose		Inflammation	Moderate
* Pancreas	Acinus	Hyperplasia	Mild
* Spleen		Fibrosis	Mild
		Hyperplasia	Lymphoid, Minimal
[Fibrosis TGLS = 3-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500928

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 2-8]			
* Epididymis		Mesothelioma Benign	
* Harderian Gland	Epithelium	Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 3-5]			
* Liver	Bile Duct	Cyst	Marked
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Cyst TGLS = 4-14]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500929

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 5-15]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 5

DOSE: 37.5 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 705

HISTO: 0500930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Cecum	* Intestine Small, Ileum	* Lymph Node, Mandibular
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AUTO PRECLUDES DIAG.

* Nose	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Mild
		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Edema	Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 705

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500930

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Lung Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy Nephropathy	Hyaline, Minimal Moderate
[Nephropathy TGLS = 2-5]			
* Liver		Clear Cell Focus Cyst Eosinophilic Focus Fatty Change	Moderate
	Bile Duct		
		Hyperplasia Inflammation Mixed Cell Focus	Minimal Minimal Minimal
[Clear Cell Focus TGLS = 3-6+7]			
[Cyst TGLS = 4-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 111	TRT#: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500931

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia Inflammation	Mild Mild
	Hepatocyte	Necrosis	Minimal
* Lung	Alveolus	Inflammation Necrosis	Histiocytic, Mild Moderate
Mesentery			
[Necrosis TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	 Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500932

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500933

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Fatty Change	Minimal
		Inflammation	Minimal
Oral Mucosa	Pharyngeal	Cyst	Marked
[Cyst TGLS = 2-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Moderate
[Atrophy TGLS = 1-3]			
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

- Oral Mucosa Pharyngeal Cyst

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 641

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose * Thyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
Note: missing = 1 kidney			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Eosinophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
		Necrosis	Moderate
[Hyperplasia TGLS = 4-3]			
[Necrosis TGLS = 3-4]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 114	TRT#: 5	SEX: Male	DAY ON TEST: 641
	DOSE: 37.5 MG/KG	DISP: Natural Death	HISTO: 0500934

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Schwannoma Malignant TGLS = 2-14]	Subcut Tiss	Schwannoma Malignant	
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Moderate Minimal Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Pancreas	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Clear Cell Focus	
	Hepatocyte	Degeneration	Cystic, Minimal
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2,3-14+15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115	TRT#: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500935

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500936

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
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Moderate
	[Dilatation TGLS = 1,2-14+15]		
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-8]		
* Prostate		Inflammation	Mild
* Trachea		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500936

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 594

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Granuloma Sperm	Mild
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Centrilobular, Hepatocyte	Degeneration	Mild
		Inflammation	Minimal
* Lung		Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 2-4+14]		
* Nose	Turbinate	Inflammation	Mild
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Lung Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 594

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500937

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 725

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Marked
* Liver		Fatty Change	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
		Ulcer	Marked
Note: TGL3 = no perforation found [Ulcer TGLS = 3-15]			
* Stomach, Glandular		Inflammation	Minimal
* Testes	Germinal Epith	Atrophy	Mild
		Inflammation	Minimal
Tongue		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 725

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500938

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLS = 2-14]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Mild
	[Alveolar/Bronchiolar Carcinoma TGLS = 5-3+4]		
	[Inflammation TGLS = 5-3+4+15]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 2-14]		
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 119	TRT#: 5 DOSE: 37.5 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 0500939
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate [Atrophy TGLS = 3-13]	Pars Distalis	Hyperplasia Atrophy	Moderate Mild
* Seminal Vesicle [Atrophy TGLS = 4-13]		Atrophy	Mild
* Testes Note: TGL1 = bilateral [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500940

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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	Kupffer Cell	Pigmentation	Hemosiderin, Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Prostate		Inflammation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Eosinophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Seminal Vesicle	Epithelium	Hyperplasia	Mild
* Skin	Dermis	Fibrosis	Mild

[Fibrosis TGLS = 2-14]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 121	TRT#: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500941

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Moderate
* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
	Bile Duct	Cyst	Minimal
		Eosinophilic Focus	
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Marked
[Dilatation TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500942

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Mild

* Prostate

Inflammation

Mild

* Testes

Germinal Epith

Atrophy

Mild

* Thyroid Gland

C Cell

Inflammation

Minimal

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Pancreas
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	
		Cyst	Mild
		Nephropathy	Marked
		[Cyst TGLS = 4-15]	
		[Nephropathy TGLS = 3-5]	
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Clear Cell Focus	
	Bile Duct	Cyst	Minimal
		Eosinophilic Focus	
	Portal	Fibrosis	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 123	TRT#: 5	SEX: Male	DAY ON TEST: 673
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500943

ORGAN AND ACCOUNTABLE SITE STATUS

[Hepatodiaphragmatic Nodule TGLS = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
* Nose		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500944

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, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Inflammation	Moderate
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Marked
* Liver	Bile Duct	Crystals	Marked
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Crystals TGLS = 3-15]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500944

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Hyperplasia	Reticulum Cell, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500945

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 126

TRT#: 5

DOSE: 37.5 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 727

HISTO: 0500946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Clear Cell Focus TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Cyst	Moderate
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Minimal
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

[Adenoma TGLS = 2-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 127	TRT#: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500947

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
[Clear Cell Focus TGLS = 4-6+7]			
[Cyst TGLS = 5-15]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Prostate	Epithelium	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 128	TRT#: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500948

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-14]	Subcut Tiss	Inflammation Fibroma	Mild
* Stomach, Glandular		Mineralization	Minimal
* Testes [Adenoma TGLS = 3-11]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 608

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Granuloma Sperm	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 2-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 465

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Brain		Meningioma Malignant	
[Meningioma Malignant TGLS = 1-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-14]			
* Lung		Meningioma Malignant	Metastatic (Brain)
[Meningioma Malignant TGLS = 4-15]			
* Preputial Gland		Inflammation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 465

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500950

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Brain Meningioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Kidney		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	Oral Mucosa	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Minimal
		Inflammation	Moderate
	Hepatocyte	Necrosis	Minimal
		Thrombosis	Mild
	[Inflammation TGLS = 3-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
* Pancreas		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 132	TRT#: 5	SEX: Male	DAY ON TEST: 724
	DOSE: 37.5 MG/KG	DISP: Natural Death	HISTO: 0500952

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Adenoma TGLS = 1-14]		Adenoma	
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Thrombosis	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Mild
* Testes [Adenoma TGLS = 4-11]	Bilateral, Interstit Cell	Ulcer Adenoma	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 682

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain	Cerebrum	Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Moderate
		Eosinophilic Focus	
		Fatty Change	Moderate
* Lung	Bile Duct	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-14]			
* Prostate		Inflammation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 133	TRT#: 5	SEX: Male	DAY ON TEST: 682
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500953

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 4-15]		Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:35

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500954

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 639

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	Cerebrum	Necrosis	Mild
* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6+7]	
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-16]	
		[Leukemia Mononuclear TGLS = 5-15]	
		[Leukemia Mononuclear TGLS = 7-17]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 8-18]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 135	TRT#: 5	SEX: Male	DAY ON TEST: 639
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500955

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Respirat Epith	Hyperplasia	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Infarct	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
[Adenoma TGLS = 2-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:35
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 455

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-14]		
* Testes	Interstit Cell	Adenoma	
	Note: adenoma = unilateral		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
[Clear Cell Focus TGLS = 3-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 137	TRT#: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500957

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-8]	Pars Distalis	Adenoma	
* Testes [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Mild
		Mixed Cell Focus	
Note: hepatocyte cystic degeneration = slide 14			
[Fatty Change TGLS = 3-6+7+14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 138	TRT#: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500958

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 675

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
	Lymph Node	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-17]		
	[Leukemia Mononuclear TGLS = 8-18]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-16]		
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 139	TRT#: 5	SEX: Male	DAY ON TEST: 675
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500959

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
* Skin		Adenoma	
[Cyst Epithelial Inclusion TGLS = 1-14]		Cyst Epithelial Inclusion	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland	Epithelium	Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi Glands	Degeneration	Mild
		Dilatation	Mild
		Inflammation	Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 140	TRT#: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500960

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen	Lymph Follic	Depletion Cellular	Moderate
[Depletion Cellular TGLS = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-6+7+15]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-14]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Parathyroid Gland			
Note: both parathyroids = missing			
* Pituitary Gland	Pars Intermed	Cyst	Moderate
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 141	TRT#: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500961

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland Note: one thyroid gland = missing	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500962

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 143

TRT#: 5

DOSE: 37.5 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 727

HISTO: 0500963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Marked
* Epididymis		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Mild
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-8]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLS = 2-14]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-11]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500963

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 598

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Marked
	[Thrombosis TGLS = 3-7]		
* Intestine Large, Cecum		Inflammation	Minimal
* Intestine Large, Rectum		Inflammation	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-14]		
* Stomach, Glandular		Erosion	Moderate
	[Erosion TGLS = 4-6+15]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 598

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500964

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

- Heart Atrium Thrombosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 659

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0500965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Brain		Hemorrhage	Moderate
[Hemorrhage TGLS = 7-9]			
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6+7]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3+4]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-15]			
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 145	TRT#: 5	SEX: Male	DAY ON TEST: 659
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0500965

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Inflammation	Mild
* Spleen		Hyperplasia	Mild
[Leukemia Mononuclear TGLS = 2-14]		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Inflammation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Inflammation	Histiocytic, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 4-4]		
* Mammary Gland	Duct	Dilatation	Moderate
	[Dilatation TGLS = 1-14]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 2-15]		
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Germinal Epith	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 146	TRT#: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500966

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-11]	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
[Hyperplasia TGLS = 6-14]			
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 3-15]			
[Leukemia Mononuclear TGLS = 2-6+7+15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15]			
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 147	TRT#: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500967

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Mild
[Adenoma TGLS = 4-11] [Atrophy TGLS = 5-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Mild
[Clear Cell Focus TGLS = 3-6+7+15]			
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-6+14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 148	TRT#: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500968

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0500969

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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Minimal
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 4-14]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 6-15]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Hyperplasia	Moderate
[Hyperplasia TGLS = 5-14]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 149	TRT#: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0500969

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 688

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0500970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose * Thyroid Gland

OBSERVATIONS

* Epididymis		Osteosarcoma	Metastatic (Spleen)
* Harderian Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Osteosarcoma	Metastatic (Spleen)
* Intestine Small, Ileum		Osteosarcoma	Metastatic (Spleen)
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Fatty Change	Minimal
		Osteosarcoma	Metastatic (Spleen)
[Osteosarcoma TGLS = 8-19]			
Lymph Node	Pancreatic	Osteosarcoma	Metastatic (Spleen)
[Osteosarcoma TGLS = 7-18]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-6]			
Mesentery		Osteosarcoma	Metastatic (Spleen)
[Osteosarcoma TGLS = 2,4-15+16]			
* Pancreas		Osteosarcoma	Metastatic (Spleen)
* Seminal Vesicle		Osteosarcoma	Metastatic (Spleen)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 150	TRT#: 5	SEX: Male	DAY ON TEST: 688
	DOSE: 37.5 MG/KG	DISP: Natural Death	HISTO: 0500970

ORGAN AND ACCOUNTABLE SITE STATUS

Skeletal Muscle [Osteosarcoma TGLS = 5-17]	Perimysium	Osteosarcoma	Metastatic (Spleen)
* Spleen [Osteosarcoma TGLS = 1-14]		Osteosarcoma	
* Testes [Adenoma TGLS = 6-11]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 2-6+7+15]	Hepatocyte	Necrosis	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate
[Ulcer TGLS = 3-14]		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 151	TRT#: 7	SEX: Male	DAY ON TEST: 414
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500971

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Serosa	Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 602

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Minimal
		Mineralization	Mild
* Kidney	Cortex	Mineralization	Moderate
		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Mild
	Interstitialium	Mineralization	Mild
	Lymph Node	Hemorrhage	Moderate
	[Hemorrhage TGLS = 4-14]		
* Nose		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Forestomach		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 152	TRT#: 7	SEX: Male	DAY ON TEST: 602
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0500972

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Mineralization	Mild
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral [Adenoma TGLS = 1-11]			
* Thymus		Atrophy	Marked
[Atrophy TGLS = 5-3]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 615

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Mild
* Epididymis		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Moderate
		Ulcer	Marked
* Kidney	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver		Basophilic Focus	
	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Parathyroid Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 3-8]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 615

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500973

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 533

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	Coagulating Gland
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Cyst	Mild
		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Cyst TGLS = 4-5]		
	[Nephropathy TGLS = 2-5+15]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 154	TRT#: 7	SEX: Male	DAY ON TEST: 533
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500974

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 3-14]

* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 703

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 503

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 650

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Inflammation	Mild
* Eye		Inflammation	Mild
		Synechia	Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Moderate
[Mineralization TGLS = 6-15]			
* Kidney	Renal Tubule	Adenoma	
		Cyst	Moderate
		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Cyst TGLS = 5-14]			
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 157	TRT#: 7	SEX: Male	DAY ON TEST: 650
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500977

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
[Hyperplasia TGLS = 3-6+7]			
* Lung	Interstitial	Mineralization	Mild
* Lymph Node, Mesenteric		Mineralization	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Mineralization	Mild
* Stomach, Forestomach		Mineralization	Mild
* Stomach, Glandular		Mineralization	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 1-11]			
[Atrophy TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 476

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Cortex	Mineralization	Moderate
		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 158	TRT#: 7	SEX: Male	DAY ON TEST: 476
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500978

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 591

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye	Cornea	Inflammation	Mild
		Inflammation	Mild
	[Inflammation TGLS = 1-10]		
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitialium	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 159	TRT#: 7	SEX: Male	DAY ON TEST: 591
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500979

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
* Stomach, Forestomach		Inflammation	Minimal
		Mineralization	Mild
* Stomach, Glandular		Inflammation	Minimal
		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 511

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Intestine Large, Cecum		Inflammation	Minimal
		Mineralization	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 160

TRT#: 7
DOSE: 75 MG/KG Stop

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 511
HISTO: 0500980

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Interstitium	Mineralization	Mild
* Pancreas	Olfactory Epi	Degeneration	Minimal
	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-11]			

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 377

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Harderian Gland	Epithelium	Hyperplasia	Mild
		Infiltration Cellular	Mononuclear Cl, Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Intestine Small, Duodenum		Ulcer	Moderate
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Moderate
[Hyperplasia TGLS = 2-6]			
[Necrosis TGLS = 3-14]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocyte, Minimal
* Nose		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 161	TRT#: 7	SEX: Male	DAY ON TEST: 377
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500981

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Moderate
* Stomach, Glandular		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 545

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
Mesentery		Mineralization	Moderate
		Thrombosis	Moderate
[Thrombosis TGLS = 1-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 162	TRT#: 7	SEX: Male	DAY ON TEST: 545
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500982

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Preputial Gland	Duct	Ectasia	Mild
[Ectasia TGLS = 5-12]			
* Prostate	Epithelium	Hyperplasia	Minimal
* Seminal Vesicle		Mineralization	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Mineralization	Mild
* Stomach, Glandular		Mineralization	Mild
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
[Adenoma TGLS = 3-11]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 510

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Kidney		Cyst	Mild
		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Cyst TGLS = 2-5]			
[Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Moderate
		Inflammation	Minimal
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 163	TRT#: 7	SEX: Male	DAY ON TEST: 510
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0500983

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Glandular		Mineralization	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[Atrophy TGLS = 4-11]			
* Thymus		Mineralization	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 490

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 164	TRT#: 7	SEX: Male	DAY ON TEST: 490
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500984

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 587

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Nose	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Kidney	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-14]		
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 165	TRT#: 7	SEX: Male	DAY ON TEST: 587
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500985

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland [Hyperplasia TGLS = 4-8]		Hyperplasia	Moderate
* Stomach, Glandular		Mineralization	Mild
* Testes [Adenoma TGLS = 1-11]	Bilateral, Interstit Cell	Adenoma	
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 605

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Cyst	Mild
	Cortex	Mineralization	Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Moderate
[Cyst TGLS = 2-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 166	TRT#: 7	SEX: Male	DAY ON TEST: 605
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500986

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-11]			
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 547

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Epididymis		Granuloma Sperm	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Intestine Large, Cecum		Inflammation	Mild
		Mineralization	Minimal
		Ulcer	Minimal
* Kidney		Cyst	Mild
		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 167	TRT#: 7	SEX: Male	DAY ON TEST: 547
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500987

ORGAN AND ACCOUNTABLE SITE STATUS

[Mineralization TGLS = 3-4]	Interstitial	Mineralization	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Erosion	Moderate
		Inflammation	Moderate
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 360

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Mineralization	Minimal
* Intestine Large, Colon		Inflammation	Minimal
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Mild
	[Hyperplasia TGLS = 2-6]		
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Minimal
* Prostate		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 168	TRT#: 7	SEX: Male	DAY ON TEST: 360
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500988

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-6]		Inflammation	Mild
* Stomach, Glandular		Inflammation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 360

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500989

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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
		Ulcer	Moderate
[Ulcer TGLS = 3-14]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 407

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Minimal
		Eosinophilic Focus	
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
[Cyst TGLS = 2-15]			
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 170	TRT#: 7	SEX: Male	DAY ON TEST: 407
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500990

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL3 (wall mass) = ulcer of forestomach [Ulcer TGLS = 3-14]		Ulcer	Marked
* Testes Note: adenoma = unilateral	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Marked
		Mineralization	Mild
	[Inflammation TGLS = 4-15]		
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Mild
	[Hepatodiaphragmatic Nodule TGLS = 2-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 171	TRT#: 7	SEX: Male	DAY ON TEST: 535
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0500991

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland	Duct	Cyst	Mild
* Stomach, Glandular		Hyperplasia	Moderate
* Testes	Interstit Cell	Mineralization	Mild
Note: adenoma = unilateral [Adenoma TGLS = 1-11]		Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 525

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Brain	Meninges	Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Minimal
* Intestine Large, Cecum		Inflammation	Marked
		Mineralization	Mild
		Ulcer	Marked
* Kidney		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
	Interstitialium	Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 172	TRT#: 7	SEX: Male	DAY ON TEST: 525
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0500992

ORGAN AND ACCOUNTABLE SITE STATUS

[Mineralization TGLS = 3-4]

* Nose	Olfactory Epi	Degeneration Inflammation	Mild Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Preputial Gland		Inflammation	Minimal
		Mineralization	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Testes	Interstit Cell	Adenoma	

Note: adenoma = unilateral

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 684

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Moderate
* Kidney	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
	[Hyperplasia TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Mild
	Interstitium	Mineralization	Minimal
* Nose		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 173	TRT#: 7	SEX: Male	DAY ON TEST: 684
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500993

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 366

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500994

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, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Intestine Small, Duodenum		Erosion	Mild
		Inflammation	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver		Bile Stasis	Mild
	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 174

TRT#: 7
DOSE: 75 MG/KG Stop

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 366
HISTO: 0500994

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
Note: adenoma = unilateral

Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 570

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Minimal
		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	[Hyperplasia TGLS = 3-14]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 175	TRT#: 7	SEX: Male	DAY ON TEST: 570
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0500995

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 503

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
		Mineralization	Minimal
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLS = 3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 176	TRT#: 7	SEX: Male	DAY ON TEST: 503
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500996

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Glands	Dilatation	Minimal
* Testes	Interstit Cell	Inflammation	Moderate
	Germinal Epith	Adenoma	
		Atrophy	Marked
[Adenoma TGLS = 1-11]			
[Atrophy TGLS = 2-11]			
* Thyroid Gland	Follicle	Cyst	Mild
* Urinary Bladder		Inflammation	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 634

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Skin
* Spleen	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	[Hyperplasia TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Interstitialium	Mineralization	Minimal
Lymph Node	Pancreatic	Degeneration	Cystic, Mild
	[Degeneration TGLS = 5-14]		
* Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 177	TRT#: 7	SEX: Male	DAY ON TEST: 634
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500997

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Minimal
* Seminal Vesicle		Inflammation	Mild
* Stomach, Forestomach		Ulcer	Minimal
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
	[Adenoma TGLS = 1-11]		
	[Atrophy TGLS = 2-11]		
* Thymus		Ectopic Parathyroid Gland	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 407

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0500998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Minimal
* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5+15]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Deep Cervical	Hemorrhage	Moderate
[Hemorrhage TGLS = 3-16]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-16]			
* Nose		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 178	TRT#: 7	SEX: Male	DAY ON TEST: 407
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0500998

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Perforation	
		Ulcer	Marked
[Perforation TGLS = 4-14]			
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 499

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0500999

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	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
	Vein	Inflammation	Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Parathyroid Gland		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 497

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0501000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Mammary Gland
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Lymph Node, Mesenteric		Fibrosis	Mild
		Hemorrhage	Mild
* Nose		Inflammation	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Preputial Gland		Adenoma	
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 180	TRT#: 7	SEX: Male	DAY ON TEST: 497
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0501000

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 2-11]		

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 394

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0501001

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, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Epididymis	* Lymph Node, Mandibular	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Testes	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Carcinoma	
[Carcinoma TGLS = 1-14]			
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Necrosis	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate

PRIMARY CAUSE OF DEATH

- Intestine Small, Duodenum Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 532

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0501002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitial	Mineralization	Minimal
* Nose		Inflammation	Mild
* Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 182	TRT#: 7	SEX: Male	DAY ON TEST: 532
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0501002

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Atrophy	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 75 MG/KG Stop

DISP: Terminal Sacrifice

HISTO: 0501003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Necrosis	Mild
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
* Lymph Node, Mesenteric		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 183	TRT#: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 75 MG/KG Stop	DISP: Terminal Sacrifice	HISTO: 0501003

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Inflammation	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 539

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Moderate
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Interstitialium	Mineralization	Mild
Lymph Node	Deep Cervical	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 539

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501004

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 5-14]			
[Hemorrhage TGLS = 1-15]			
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Mild
* Pancreas	Acinus Duct	Atrophy Cyst	Mild Mild
* Parathyroid Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 4-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Mild Moderate Moderate
* Stomach, Glandular		Mineralization	Moderate
* Testes	Interstitial Cell	Adenoma Mineralization	Mild
[Adenoma TGLS = 2-11]			
[Mineralization TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 2-14]			
* Nose		Inflammation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501005

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 407

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Marked
	Bile Duct	Hyperplasia	Mild
		Inflammation	Mild
		Mixed Cell Focus	
[Cyst TGLS = 2-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
		Perforation	
		Ulcer	Marked
Note: TGL3 (wall perforation) = perforation and ulcer of forestomach			
[Perforation TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 186	TRT#: 7	SEX: Male	DAY ON TEST: 407
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501006

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 3-6]			
* Testes Note: adenoma = unilateral	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 401

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Moderate
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate
		Ulcer	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501008

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 561

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Minimal
		Nephropathy	Marked
Note: SS = amyloid negative [Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 4-15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 189	TRT#: 7	SEX: Male	DAY ON TEST: 561
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501009

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibrous Histiocytoma TGLS = 1-14]		Fibrous Histiocytoma	
* Stomach, Glandular		Mineralization	Minimal
* Testes [Adenoma TGLS = 2-11]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 561

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Hepatocellular Adenoma TGLS = 3-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Preputial GI			
Note: one gland missing			
* Testes	Interstit Cell	Adenoma	
Note: adenoma = unilateral			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 190	TRT#: 7	SEX: Male	DAY ON TEST: 561
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501010

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney	Nephropathy	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 75 MG/KG Stop

DISP: Terminal Sacrifice

HISTO: 0501011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Mild
* Epididymis		Fibrosis	Mild
		Granuloma Sperm	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Cyst	Mild
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Marked
		[Cyst TGLS = 4-5+14]	
		[Nephropathy TGLS = 3-5]	
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Eosinophilic Focus	
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 191	TRT#: 7	SEX: Male	DAY ON TEST: 728
	DOSE: 75 MG/KG Stop	DISP: Terminal Sacrifice	HISTO: 0501011

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Skin	Pinna	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-15]			
* Stomach, Forestomach		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 635

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0501012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Eye	Cornea	Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Mild
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Marked
	[Cyst TGLS = 3-14]		
	[Nephropathy TGLS = 2-5+14]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 192	TRT#: 7	SEX: Male	DAY ON TEST: 635
	DOSE: 75 MG/KG Stop	DISP: Natural Death	HISTO: 0501012

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 673

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Dilatation	Moderate
		Mineralization	Moderate
[Dilatation TGLS = 7-16]			
* Bone		Fibrous Osteodystrophy	Mild
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-15]			
* Eye		Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Intestine Large, Cecum		Inflammation	Mild
* Kidney	Renal Tubule	Adenoma	
		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Minimal
		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 6-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 193 **TRT#:** 7 **SEX:** Male **DAY ON TEST:** 673
DOSE: 75 MG/KG Stop **DISP:** Moribund Sacrifice **HISTO:** 0501013

ORGAN AND ACCOUNTABLE SITE STATUS

		Mesothelioma Malignant	Metastatic (Epididymis)
[Hyperplasia TGLS = 4,5-6+7]			
* Lung	Alveolar Epith	Hemorrhage	Mild
	Alveolus	Hyperplasia	Mild
	Interstitialium	Inflammation	Histiocytic, Minimal
* Nose		Mineralization	Minimal
* Pancreas	Acinus	Inflammation	Mild
		Atrophy	Minimal
* Parathyroid Gland		Mesothelioma Malignant	Metastatic (Epididymis)
* Prostate		Hyperplasia	Moderate
* Seminal Vesicle		Mesothelioma Malignant	Metastatic (Epididymis)
* Skin		Mesothelioma Malignant	Metastatic (Epididymis)
[Basal Cell Adenoma TGLS = 1-14]		Basal Cell Adenoma	
* Spleen		Mesothelioma Malignant	Metastatic (Epididymis)
* Stomach, Forestomach		Inflammation	Minimal
		Mesothelioma Malignant	Metastatic (Epididymis)
* Stomach, Glandular		Inflammation	Minimal
		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	Metastatic (Epididymis)
[Adenoma TGLS = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 502

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0501014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
		Mineralization	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
		Ulcer	Mild
	[Ulcer TGLS = 4-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 502

DOSE: 75 MG/KG Stop

DISP: Natural Death

HISTO: 0501014

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 393

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland	Epithelium	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 2-5]		
* Liver	Hepatocyte	Basophilic Focus	
	Portal	Cellular Alteration	Diffuse, Mild
		Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-14]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 195	TRT#: 7	SEX: Male	DAY ON TEST: 393
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501015

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Mild Mild Moderate
* Stomach, Glandular		Inflammation	Minimal
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 388

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501016

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, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Small, Duodenum		Erosion	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-14]			
* Nose		Inflammation	Moderate
* Pancreas	Duct	Cyst	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
		Perforation	
		Ulcer	Marked

Note: TGL3 (wall mass) = ulcer of forestomach
[Ulcer TGLS = 3-15]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 196	TRT#: 7	SEX: Male	DAY ON TEST: 388
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501016

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 366

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate
		Perforation	
		Ulcer	Marked
[Ulcer TGLS = 2-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 622

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Moderate
[Inflammation TGLS = 5-7]			
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 3-6+7]			
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 198	TRT#: 7	SEX: Male	DAY ON TEST: 622
	DOSE: 75 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501018

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLS = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-11]		

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 407

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
		Ulcer	Moderate
Note: TGL2 (mucosa focus) = coded under forestomach			
[Ulcer TGLS = 2-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 407

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
		Perforation	
		Ulcer	Marked
[Ulcer TGLS = 3,4-14+16]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 407

DOSE: 75 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501020

ORGAN AND ACCOUNTABLE SITE STATUS

Note: adenoma = unilateral

* Trachea

Inflammation

Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 201

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 495
HISTO: 0501021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hydrocephalus	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
Note: SS = amyloid negative			
* Liver		Fatty Change	Moderate
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Ovary		Atrophy	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 202

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
Note: SS = amyloid negative			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Mild
[Hepatodiaphragmatic Nodule TGLS = 1-13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 203

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 604

HISTO: 0501023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Angiectasis	Mild
		Glomerulosclerosis	Mild
		Hemorrhage	Mild
		Nephropathy	Mild
Note: SS = amyloid negative			
			[Glomerulosclerosis TGLS = 3-5]
			[Nephropathy TGLS = 3-5]
* Liver		Basophilic Focus	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
			[Fibroadenoma TGLS = 1-13]
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 4-8]
* Trachea		Inflammation	Minimal
* Uterus		Hemorrhage	Moderate
			[Hemorrhage TGLS = 2-11]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 203

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 604

HISTO: 0501023

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 204

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 693

HISTO: 0501024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 1-13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Parathyroid Gland		Cyst	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 205

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-----------------------------------|---------------|-------------------|----------------------|
| * Clitoral Gland | | Inflammation | Mild |
| [Inflammation TGLS = 4-12] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Mild |
| Note: SS = amyloid negative | | | |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Cyst | Moderate |
| [Basophilic Focus TGLS = 1-6+7] | | | |
| [Cyst TGLS = 2-13] | | | |
| * Lung | Alveolus | Inflammation | Histiocytic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-8] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 206

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
Note: SS = amyloid negative			
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 1-13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 207

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 581
HISTO: 0501027

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, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Mesothelioma Malignant	Metastatic (Mesentery)
* Intestine Small, Ileum		Mesothelioma Malignant	Metastatic (Mesentery)
* Kidney		Mesothelioma Malignant	Metastatic (Mesentery)
	[Mesothelioma Malignant TGLS = 5-15]		
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 2-13]		
* Nose		Inflammation	Mild
* Ovary		Mesothelioma Malignant	Metastatic (Mesentery)
* Pancreas	Acinus	Atrophy	Mild
		Mesothelioma Malignant	Metastatic (Mesentery)
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	[Cyst TGLS = 1-8]		
Skeletal Muscle		Mesothelioma Malignant	Metastatic (Mesentery)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 207

TRT#: 2

SEX: Female

DAY ON TEST: 581

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501027

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 3-14]

* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Inflammation

Mild

Ulcer

Mild

* Thymus

Atrophy

Mild

[Atrophy TGLS = 4-3]

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 208

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLS = 4-15]			
* Mammary Gland		Adenoma	
		Fibroadenoma	
[Adenoma TGLS = 1-13]			
[Fibroadenoma TGLS = 2-14]			
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-8]			
* Skin		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 208

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501028

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLS = 5-16]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-5]

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 209

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 607
HISTO: 0501029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 4-6+7]			
* Lung	Alveolar Epith Alveolus	Hyperplasia Inflammation Inflammation Fibroadenoma	Minimal Histiocytic, Minimal Minimal
* Mammary Gland			
[Fibroadenoma TGLS = 2-14]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Mild Mild
[Cyst TGLS = 3-8]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 209

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 607
HISTO: 0501029

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 210

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 674
HISTO: 0501030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith Alveolus	Hyperplasia Inflammation Fibroadenoma	Minimal Histiocytic, Minimal
* Mammary Gland			
[Fibroadenoma TGLS = 1-13]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-14]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-11]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Cyst Epithelial Inclusion	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 211

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
[Basophilic Focus TGLS = 3-6+7+15]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1,2-13+14]			
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Rathkes Cleft	Cyst	Marked
[Adenoma TGLS = 4-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 212

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 674
HISTO: 0501032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 2-6+7+13+15]		
	[Mixed Cell Focus TGLS = 3-13]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-14]		
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 4-16]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 213

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Moderate
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Mild
		Schwannoma Benign	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 1-6+7+13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Mediastinal	Degeneration	Cystic, Moderate
[Degeneration TGLS = 3-15]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: adenoma = cystic			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 213	TRT#: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501033

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 214

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Mineralization	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Inflammation	Mild
* Lung	Hepatocyte	Necrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Ovary		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 214

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501034

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 3-14]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 215

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland [Cyst TGLS = 3-12]	Duct	Cyst	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver [Basophilic Focus TGLS = 2-6+7]		Basophilic Focus Inflammation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin [Fibroma TGLS = 1-13]	Subcut Tiss	Fibroma	
* Stomach, Forestomach [Squamous Cell Papilloma TGLS = 4-14]		Squamous Cell Papilloma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 216

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 4-6+7+14]			
* Lung	Alveolar Epith	Hyperplasia	Mild
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 5-15+16]			
* Nose		Inflammation	Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-11]			
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 216	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501036

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach [Hyperplasia TGLS = 6-17]	Epithelium	Hyperplasia Ulcer	Moderate Mild
* Thyroid Gland * Uterus [Polyp Stromal TGLS = 2-11]	C Cell	Hyperplasia Polyp Stromal	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 217

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501037

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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Inflammation	Minimal
[Basophilic Focus TGLS = 1-6+7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Urinary Bladder		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 218

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501038

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	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
	[Basophilic Focus TGLS = 3-6+7]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,2-13+14]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
	Note: TGL5 = angiectasis associated with hyperplasia		
	[Hyperplasia TGLS = 5-8]		
* Spleen		Hemangiosarcoma	
	[Hemangiosarcoma TGLS = 4-15]		
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 219

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501039

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	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1,2,3-13+14+15]			
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 220

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 688

HISTO: 0501040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 221

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501041

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 1-6+7+13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 309

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501042

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|----------------|----------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Cyst | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Mild |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 223

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
[Basophilic Focus TGLS = 2-6+7+13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	

[Polyp Stromal TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 224

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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	* Ovary
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Basophilic Focus TGLS = 1-13]		
	[Hepatodiaphragmatic Nodule TGLS = 2-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Minimal
		Mineralization	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 225

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 634

HISTO: 0501045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland	Duct	Cyst	Mild
		Hyperplasia	Mild
		Inflammation	Mild
[Cyst TGLS = 3-12]			
[Hyperplasia TGLS = 3-12]			
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-13]			
* Pancreas	Acinus	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 226

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Mild
[Basophilic Focus TGLS = 3-16]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1,2-14+15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 4-13]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 227

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 519
HISTO: 0501047

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Thymus	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Necrosis	Mild
[Necrosis TGLS = 2-6+7]			
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Hemangiosarcoma	
		Hemorrhage	Marked
		Thrombosis	Moderate
[Hemangiosarcoma TGLS = 1-14]			
[Hemorrhage TGLS = 1-14]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Mineralization	Minimal
		Ulcer	Mild
[Ulcer TGLS = 3-13]			
* Stomach, Glandular		Mineralization	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 227

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 519

HISTO: 0501047

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 228

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 659

HISTO: 0501048

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------|------------------|----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Minimal |
| [Basophilic Focus TGLS = 1-6+7+13] | | | |
| * Lung | Alveolus | Inflammation | Histiocytic, Minimal |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLS = 3-14] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-8] | | | |
| Tooth | | Odontoma | |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 229

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

[Polyp Stromal TGLS = 2-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 230

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 2-7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
* Uterus			
Note: lumen dilatation			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 231

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 650
HISTO: 0501051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Brain		Hemorrhage	Mild
		Hydrocephalus	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 232

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501052

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	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 3-13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-15]			
* Nose		Inflammation	Minimal
* Pancreas	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 233

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Eye	Retina	Atrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Thyroid Gland	Follicle	Cyst	Mild
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 234

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-14]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501054

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 235	TRT#: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501055

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Inflammation	Minimal
	[Basophilic Focus TGLS = 2,3-6+7+13]		
	[Hepatocellular Adenoma TGLS = 4-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 236

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 672
HISTO: 0501056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 236

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 672
HISTO: 0501056

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular
[Erosion TGLS = 5-6]

Erosion

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 237

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 502
HISTO: 0501057

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 2-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 239

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
[Basophilic Focus TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Oral Mucosa	Pharyngeal	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-13]			
* Pancreas	Acinus	Hyperplasia	Minimal
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 240

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 674
HISTO: 0501060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 2-11]			
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 241

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
[Basophilic Focus TGLS = 2,3-6+7+13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 242

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501062

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	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Basophilic Focus TGLS = 4-6+7]		
	[Hepatodiaphragmatic Nodule TGLS = 5-15]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,3-13+14]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 243

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 538

HISTO: 0501063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Marked
* Eye		Inflammation	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Inflammation	Marked
[Inflammation TGLS = 2-3]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

- Thymus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 244

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501064

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Hemorrhage	Marked

[Hemorrhage TGLS = 1-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 245

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 721
HISTO: 0501065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 246

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501066

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1,2-13+14]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Pancreas	Acinus	Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 247

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0501067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Eye	Retina	Atrophy	Marked
		Cataract	Moderate
	[Cataract TGLS = 1-10]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 248

TRT#: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0501068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Moderate
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Ovary		Cyst	Mild
[Cyst TGLS = 2-11]			
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 249

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lymph Node, Mesenteric			
		[Leukemia Mononuclear TGLS = 5-16]	
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1,2-13+14]	
* Nose		Inflammation	Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Minimal
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 4-8]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-15]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 249

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501069

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 250

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 638

HISTO: 0501070

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------------|---------------|------------------|------|
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 1-8] | | | |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501071

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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
[Inflammation TGLS = 3-3+4]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:36
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Inflammation	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Trachea		Inflammation	Minimal
* Uterus			

Note: physiologic dilatation in one horn

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:36

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 85

DOSE: 37.5 MG/KG

DISP: Dosing Accident

HISTO: 0501073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * 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 | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------------------|----------------|--------------|----------|
| * Esophagus | Periesoph Tiss | Inflammation | Marked |
| [Inflammation TGLS = 1-13] | | | |
| * Liver | | Fatty Change | Minimal |
| * Lung | Serosa | Inflammation | Minimal |
| * Skin | Subcut Tiss | Inflammation | Marked |
| [Inflammation TGLS = 2-14] | | | |
| * Thymus | | Cyst | Moderate |
| [Cyst TGLS = 4-15] | | Inflammation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501074

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Portal	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-14]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Inflammation	Mild
	Lymph Node	Hemorrhage	Moderate
	[Hemorrhage TGLS = 4-15]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-13]		
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
* Ovary		Cyst	Mild
	[Cyst TGLS = 1-11]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501074

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 255	TRT#: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501075

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, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501076

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	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Lymph Node, Mandibular	* Urinary Bladder
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 3-15]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,2-13+14]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0501077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Clitoral Gland	Duct	Cyst	Moderate
		Inflammation	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Marked
		Fibroadenoma	
	[Dilatation TGLS = 1-13]		
	[Fibroadenoma TGLS = 2-14]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 3-15]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-8]		
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501078

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-15]			
* Eye	Retina	Atrophy	Marked
		Cataract	Moderate
[Cataract TGLS = 4-10]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	Mild
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1,2-13+14]			
* Nose	Olfactory Epi	Degeneration	Mild
	Glands	Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501079

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Note: physiologic dilatation = one horn

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Mild
	[Dilatation TGLS = 1-13]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Cyst	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,2,3-13+14+15]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 4-16]		
* Nose	Glands	Dilatation	Mild
	Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Clitoral Gland		Inflammation	Marked
		Sarcoma	
	[Sarcoma TGLS = 2-14]		
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
* Nose	Olfactory Epi	Degeneration	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-8]		
* Skin		Lipoma	
	[Lipoma TGLS = 4-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501082

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
		Inflammation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-14]			
* Nose	Glands	Dilatation	Minimal
		Inflammation	Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 263

TRT#: 4

DOSE: 37.5 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501083

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Accessory Spleen	
Note: capsular cyst = TGL4 [Accessory Spleen TGLS = 4-15]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus			
Note: physiologic dilatation = one horn			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 561

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Esophagus	Muscularis	Degeneration	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Leukemia Mononuclear	
Note: hepatocyte regeneration and necrosis associated with mononuclear cell leukemia [Leukemia Mononuclear TGLS = 2,3-13+14]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-15]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 5-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 264	TRT#: 4	SEX: Female	DAY ON TEST: 561
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501084

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501085

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
		Inflammation	Mild
	[Inflammation TGLS = 2-3+4]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Esophagus		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Cyst	Moderate
		Fatty Change	Minimal
		Inflammation	Minimal
	[Cyst TGLS = 2-13]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
* Pituitary Gland		Hemorrhage	Moderate
	Pars Distalis	Hyperplasia	Mild
	[Hemorrhage TGLS = 1-14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501086

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 267	TRT#: 4	SEX: Female	DAY ON TEST: 573
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501087

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
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-15]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,2-13+14]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
[Fatty Change TGLS = 2-6]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus			

Note: physiologic lumen dilatation

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 674

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* 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

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-15]			

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0501090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Kidney	Renal Tubule	Degeneration	Mild
		Glomerulopathy	Hyaline, Minimal
	Cortex	Mineralization	Mild
		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Pigmentation	Hemosiderin, Mild
* Stomach, Glandular		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0501090

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 1-13]

PRIMARY CAUSE OF DEATH

- Tongue Squamous Cell Papilloma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-15]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,2-13+14]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,2-14+15]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 4-13]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Ovary		Cyst	Moderate
	[Cyst TGLS = 3-11]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501092

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
Note: TGL1 and TGL2 = cystic			
[Fibroadenoma TGLS = 1,2-13+14]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLS = 3-8]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501093

ORGAN AND ACCOUNTABLE SITE STATUS

Note: physiologic lumen dilatation

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 701

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6+7]			
* Lung	Alveolar Epith Alveolus	Hyperplasia Inflammation Leukemia Mononuclear	Mild Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Mild
* Pancreas	Acinus Duct	Atrophy Cyst	Minimal Minimal
* Pituitary Gland	Pars Distalis	Hemorrhage Hyperplasia	Moderate Moderate
[Hemorrhage TGLS = 4-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 701

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501094

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-5]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Marked
[Dilatation TGLS = 1-13]			
Mesentery		Necrosis	Mild
[Necrosis TGLS = 3-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Ovary		Atrophy	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Epidermis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 276

TRT#: 4

DOSE: 37.5 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland	Duct	Cyst Inflammation	Moderate Mild
[Cyst TGLS = 1-13]			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Moderate
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501096

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501097

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
[Clear Cell Focus TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Eye	Retina	Atrophy	Marked
		Cataract	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Inflammation	Minimal
[Clear Cell Focus TGLS = 1-13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 600

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0501099

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 Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

OBSERVATIONS

- | | | | |
|---|---------------|-------------------|----------------------|
| * Intestine Large, Rectum | | Parasite Metazoan | |
| * Lung | Alveolus | Inflammation | Histiocytic, Minimal |
| Mesentery | | Necrosis | Moderate |
| [Necrosis TGLS = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Note: autolysis (pituitary adenoma suspected) | | | |
| [Adenoma TGLS = 2-8] | | | |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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
* Lymph Node, Mesenteric	* Ovary	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Hepatocellular Adenoma	
Note: angiectasis present in adenoma (slide 6)			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
Note: TGL1 = cystic			
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501102

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, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye			
Note: optic nerve on slide 9			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 1-13]			
* Nose	Olfactory Epi Glands	Degeneration	Minimal
		Dilatation	Minimal
		Inflammation	Minimal
* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Marked
		Inflammation	Mild
[Hyperplasia TGLS = 2-14]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501102

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 637

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Myelofibrosis	Moderate
* Eye	Retina	Atrophy	Moderate
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Minimal
		Leukemia Mononuclear	
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6+7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-15]		
	[Leukemia Mononuclear TGLS = 3-13]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-14]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Marked
		Thrombosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 283	TRT#: 4	SEX: Female	DAY ON TEST: 637
	DOSE: 37.5 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501103

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501104

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------|-------------------------|------------------|----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Inflammation | Minimal |
| * Lung | Alveolus | Inflammation | Histiocytic, Minimal |
| * Nose | Olfactory Epi
Glands | Degeneration | Minimal |
| | | Dilatation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501105

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	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
Note: TGL1 = cystic			
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
	Bile Duct	Cyst	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cystadenoma	
[Cystadenoma TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Brain		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland	Duct	Dilatation	Marked
	[Dilatation TGLS = 2-13]		
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-15]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501108

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501109

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	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Degeneration	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary		Atrophy	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501109

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 1-13]

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Uterus

Note: physiologic lumen dilatation = one horn

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

Note: physiologic dilatation = one horn

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501111

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	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Mineralization	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hemorrhage	Moderate

[Hemorrhage TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501112

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 Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Minimal
	[Fatty Change TGLS = 3-6+7]		
	[Hepatodiaphragmatic Nodule TGLS = 4-15]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
Mesentery		Necrosis	Moderate
	[Necrosis TGLS = 2,5-14+16]		
* Nose	Olfactory Epi Glands	Degeneration	Minimal
		Dilatation	Minimal
		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501113

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Acinus	Atrophy	Minimal
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Lipoma	
[Lipoma TGLS = 1-13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 37.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501115

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	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
Note: TGL1 = cystic [Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 652

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin	Subcut Tiss	Fibroma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 670

DOSE: 37.5 MG/KG

DISP: Natural Death

HISTO: 0501117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Cystic Keratinizing Epithelioma	
	Alveolus	Inflammation	Histiocytic, Minimal
	Alveolar Epith	Leukemia Mononuclear	
	[Cystic Keratinizing Epithelioma TGLS = 2-13]	Metaplasia	Squamous, Moderate
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-14]		

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 298	TRT#: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 37.5 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 650

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye		Inflammation	Minimal
* Heart		Hypertrophy	Mild
[Hypertrophy TGLS = 4-7]			
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Centrilobular, Hepatocyte	Degeneration	Mild
		Fatty Change	Mild
	Hepatocyte	Necrosis	Mild
[Necrosis TGLS = 3-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 650

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501119

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 716

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral GI			
Note: one clitoral gland = missing			
* Eye	Retina	Atrophy Cataract	Marked Moderate
[Cataract TGLS = 2-10]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy Nephropathy	Hyaline, Minimal Minimal
* Liver		Fatty Change	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-11]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 716

DOSE: 37.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501120

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
[Hyperplasia TGLS = 1-6+7]			
* Lung		Congestion	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
Note: ectopic liver in mediastinum (lung section, slide 4); suspect HDN			
[Congestion TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 301	TRT#: 6	SEX: Female	DAY ON TEST: 708
	DOSE: 75.0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501121

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Glands	Degeneration Dilatation Inflammation	Minimal Minimal Minimal
* Parathyroid Gland	Olfactory Epi	Metaplasia	Respiratory, Mild
* Stomach, Forestomach Zymbal's Gland	Epithelium	Hyperplasia Hyperplasia Adenoma	Mild Mild

[Adenoma TGLS = 4-13]

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
[Fatty Change TGLS = 3-6+7]			
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 302	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501122

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
		[Hepatodiaphragmatic Nodule TGLS = 6,7-17+18]	
		[Hyperplasia TGLS = 5-6+7+17+18]	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		[Inflammation TGLS = 8-19]	
* Mammary Gland	Duct	Dilatation	Marked
		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 303	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501123

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 3-15] [Fibroadenoma TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Minimal
* Pituitary Gland	Olfactory Epi Pars Distalis	Metaplasia Hyperplasia	Respiratory, Mild Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-13]			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Moderate
[Inflammation TGLS = 4-16]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
		Fatty Change	Moderate
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Minimal
	[Hyperplasia TGLS = 1-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Adenoma	
	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal

Note: adenoma = lateral wall (slide 1, section 1)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 304

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501124

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atypia Cellular	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 2-13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLS = 1-11]			
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Fatty Change TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501125

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Transit Epithe

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Minimal
	[Hyperplasia TGLS = 3-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
	Note: TGL2 = cystic		
	[Fibroadenoma TGLS = 1,2-13+14]		
* Nose	Olfactory Epi	Degeneration	Mild
	Turbinate	Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501126

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
		Inflammation	Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Minimal
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
		[Hyperplasia TGLS = 1-6+7+13]	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501127

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Transit Epithe

Inflammation

Mild

Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Moderate
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Mild
		Mixed Cell Focus	
	Hepatocyte	Necrosis	Mild
[Cyst TGLS = 3-13]			
[Hepatodiaphragmatic Nodule TGLS = 4-14]			
[Hyperplasia TGLS = 1-6+7]			
[Mixed Cell Focus TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 308	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501128

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Mild Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas		Inflammation	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 5-15]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 309 TRT#: 6 SEX: Female DAY ON TEST: 729
DOSE: 75.0 MG/KG DISP: Terminal Sacrifice HISTO: 0501129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cholangioma	
		Cyst	Marked
		Fatty Change	Moderate
	Serosa	Hemorrhage	Marked
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Cholangioma TGLS = 5-15]			
[Fatty Change TGLS = 3-6+7]			
[Hemorrhage TGLS = 4-14]			
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
[Inflammation TGLS = 8-4]			
Lymph Node	Mediastinal	Degeneration	Cystic, Mild
	Mediastinal	Hyperplasia	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 309	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501129

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 7-17]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 6-16]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Marked
	Olfactory Epi	Metaplasia	Respiratory, Moderate
		Thrombosis	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501130

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	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Clear Cell Focus	
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	[Fatty Change TGLS = 1-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Fibrosis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501130

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Retina	Atrophy	Marked
		Cataract	Moderate
	[Cataract TGLS = 1-10]		
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Serosa	Fibrosis	Mild
	Serosa	Hemorrhage	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
	Serosa	Inflammation	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
	[Hyperplasia TGLS = 2,3-6+7+13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 311	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501131

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
	Septum	Fibrosis	Moderate
		Inflammation	Marked
	Olfactory Epi	Metaplasia	Respiratory, Marked
* Ovary		Atrophy	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-8]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
		Ulcer	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 312

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
		[Hyperplasia TGLS = 1-6+7]	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Marked
		[Necrosis TGLS = 2-13]	
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501132

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: 75.0 MG/KG

DISP: Natural Death

HISTO: 0501133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
Note: SS = amyloid negative [Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-13] [Hyperplasia TGLS = 3,7-6+7+13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 313

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 695

HISTO: 0501133

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland

Hyperplasia

Mild

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-5]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 314

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Eye	Retina	Dysplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Marked
		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
	[Cyst TGLS = 3-13]		
	[Fatty Change TGLS = 2-6+7+13]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Deep Cervical	Hyperplasia	Lymphoid, Mild
	Deep Cervical	Pigmentation	Hemosiderin, Mild
	[Hyperplasia TGLS = 1-14]		
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501134

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland

* Thyroid Gland

Olfactory Epi

C Cell

Metaplasia

Hyperplasia

Hyperplasia

Respiratory, Minimal

Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Minimal
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Mild
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi Glands	Degeneration Dilatation	Mild Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501135

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 1-11]

* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501136

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
	Pelvis	Inflammation	Moderate
		Nephropathy	Moderate
Note: bacteria in pelvis			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Moderate
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
Tooth		Dysplasia	Marked
[Dysplasia TGLS = 2-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501136

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland	Duct	Cyst	Moderate
[Cyst TGLS = 3-12]			
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Moderate
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Moderate
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 317	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501137

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus			
Note: physiologic dilatation (one horn)			
Vagina		Sarcoma	
[Sarcoma TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 716

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Eye	Retina	Dysplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6+7]	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
		Note: subpleural lymphoid (suspect MCL) infiltrate	
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 318	TRT#: 6	SEX: Female	DAY ON TEST: 716
	DOSE: 75.0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501138

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 2-11]		Cyst	Marked
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen [Leukemia Mononuclear TGLS = 1-5]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Minimal
* Intestine Large, Colon		Ulcer	Marked
Note: granulation tissue and inflammation associated with ulcer [Ulcer TGLS = 3-13]			
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 319	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501139

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 75.0 MG/KG

DISP: Natural Death

HISTO: 0501140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 5-9]		
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
	Lymph Node	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 320	TRT#: 6	SEX: Female	DAY ON TEST: 698
	DOSE: 75.0 MG/KG	DISP: Natural Death	HISTO: 0501140

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-13]			
[Leukemia Mononuclear TGLS = 4-14]			
* Nose	Olfactory Epi	Degeneration Inflammation	Moderate Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Glandular		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 321

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Minimal
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
[Inflammation TGLS = 2-3+4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 321	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501141

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Mild Moderate
* Stomach, Forestomach	Olfactory Epi Epithelium	Metaplasia Hyperplasia Inflammation Ulcer	Respiratory, Mild Moderate Mild Mild

[Hyperplasia TGLS = 3-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Ovary	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
	[Hyperplasia TGLS = 1-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501142

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Hyperplasia

Minimal

* Thyroid Gland

Follicle

Cyst

Moderate

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Retina	Atrophy	Marked
		Cataract	Marked
	[Cataract TGLS = 1-10]		
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
		Mixed Cell Focus	
	Hepatocyte	Necrosis	Mild
	[Mixed Cell Focus TGLS = 4-6+7+13]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
	Glands	Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501144

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 2-14]	Olfactory Epi	Inflammation Metaplasia Cyst	Moderate Respiratory, Mild Moderate
* Parathyroid GI Note: second parathyroid found on slide 3.			
* Thyroid GI Note: second thyroid found on slide 8			
* Uterus [Polyp Stromal TGLS = 3-14]	Endometrium	Hyperplasia Polyp Stromal	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
		Mixed Cell Focus	
[Fatty Change TGLS = 3-6+7]			
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 325	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501145

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-8]	Olfactory Epi Pars Distalis	Metaplasia Adenoma	Respiratory, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
		Hyperplasia	Moderate
* Harderian Gland	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-10]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 1,2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 326	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501146

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid GI Note: 1 gland = missing	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland [Hyperplasia TGLS = 4-8]	Pars Distalis	Hyperplasia	Mild
* Thyroid GI Note: 1 gland = missing			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
	[Hyperplasia TGLS = 2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
		Inflammation	Minimal
	[Fibroadenoma TGLS = 1-13]		
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501147

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Atrophy	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-14]		
	[Hyperplasia TGLS = 2-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLS = 1-13]		
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501148

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland

Olfactory Epi

Inflammation

Mild

Metaplasia

Respiratory, Minimal

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 428

DOSE: 75.0 MG/KG

DISP: Natural Death

HISTO: 0501149

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
* Kidney	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6+7]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Parathyroid Gland			
Note: both parathyroids = missing			
* Spleen	Capsule	Hemorrhage	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland			
Note: 1 thyroid gland = missing			

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 668

DOSE: 75.0 MG/KG

DISP: Natural Death

HISTO: 0501150

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Hyperplasia

Marked

Inflammation

Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501151

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	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hemorrhage	Mild
		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Moderate
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: basophilic focus = slide 14			
[Cyst TGLS = 4,5-13+14]			
[Hyperplasia TGLS = 3-6+7+13+14]			
[Leukemia Mononuclear TGLS = 2-6+7+13+14]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
			[Inflammation TGLS = 8-4]
* Nose	Olfactory Epi	Degeneration	Mild
	Glands	Dilatation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 331	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501151

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 7-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Fatty Change	Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Minimal
		[Hyperplasia TGLS = 2-6+7]	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
		[Hyperplasia TGLS = 3-13]	
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-14]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 332	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501152

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Marked
	Olfactory Epi	Metaplasia	Respiratory, Mild
Note: extensive inflammation in one dorsal region			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 497

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Bone	Mandible	Osteosarcoma	
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland			
Note: missing = one gland			
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Cyst	Minimal
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild

PRIMARY CAUSE OF DEATH - Bone Mandible Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Marked
* Liver		Basophilic Focus	
	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Serosa	Hemorrhage	Moderate
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
		[Hemorrhage TGLS = 3-14]	
		[Hepatodiaphragmatic Nodule TGLS = 4-15]	
		[Hyperplasia TGLS = 2-6+7]	
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501154

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-13]

* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland			
Note: 1 gland = missing			
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
		Fatty Change	Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
	Perivascular	Inflammation	Mild
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 335	TRT#: 6	SEX: Female	DAY ON TEST: 702
	DOSE: 75.0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501155

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Mild Moderate
	Olfactory Epi	Metaplasia Thrombosis	Respiratory, Mild Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLS = 1-5]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Moderate
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
	[Cyst TGLS = 4,5-13+14]		
	[Hyperplasia TGLS = 2,3-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501156

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]

* Spleen

Hyperplasia

Lymphoid, Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Moderate
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Minimal
[Hyperplasia TGLS = 2,3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 337

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501157

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Mild Minimal
* Pancreas	Olfactory Epi Acinus	Metaplasia Atrophy	Respiratory, Minimal Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501158

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland
Tooth

C Cell
Peridont Tiss

Hyperplasia
Inflammation

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 339

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 702

HISTO: 0501159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hemorrhage	Mild
		Myelofibrosis	Moderate
* Harderian Gland		Mineralization	Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: necrosis associated with mononuclear cell leukemia			
[Hyperplasia TGLS = 3-6+7]			
[Leukemia Mononuclear TGLS = 2-13]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
	Glands	Dilatation	Mild
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 339	TRT#: 6	SEX: Female	DAY ON TEST: 702
	DOSE: 75.0 MG/KG	DISP: Moribund Sacrifice	HISTO: 0501159

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary	Olfactory Epi	Metaplasia Atrophy Cyst	Respiratory, Minimal Moderate Moderate
[Cyst TGLS = 1-11]			
* Pancreas	Duct	Cyst	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501160

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501161

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
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Cyst TGLS = 3-13]		
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 75.0 MG/KG

DISP: Moribund Sacrifice

HISTO: 0501161

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
Note: HDN = slide 7			
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501162

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Uterus

Note: physiologic dilatation = one uterine horn

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 343

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0501163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Moderate
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Mild
		Mixed Cell Focus	
	Hepatocyte	Necrosis	Moderate
[Fatty Change TGLS = 1-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
[Inflammation TGLS = 3-3+4]			
Mesentery		Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501163

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 2-13]

* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Moderate
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Necrosis	Minimal
[Fatty Change TGLS = 3-6+7]			
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501164

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

[Adenoma TGLS = 4-8]

Duct
Pars Distalis

Cyst
Adenoma

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Mild
* Liver	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 346

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 702

HISTO: 0501166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Rectum	* Lymph Node, Mesenteric
* Mammary Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Stomach, Forestomach	* Stomach, Glandular	

OBSERVATIONS

* Adrenal Cortex [Hemorrhage TGLS = 3-8]		Hemorrhage	Moderate
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye Note: optic nerve = missing			
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy Nephropathy	Hyaline, Marked Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Moderate
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Necrosis	Minimal
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose		Inflammation	Marked
* Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 702

DOSE: 75.0 MG/KG

DISP: Natural Death

HISTO: 0501166

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-5]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: many bile ducts dilated			
[Hepatodiaphragmatic Nodule TGLS = 2-13]			
[Leukemia Mononuclear TGLS = 3,4-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 347	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501167

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Spleen	Pars Distalis	Hyperplasia	Minimal
[Leukemia Mononuclear TGLS = 1-5]		Leukemia Mononuclear	
* Uterus			
Note: physiologic dilatation = one uterine horn			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 348

TRT#: 6

DOSE: 75.0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 0501168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Eye	Retina	Atrophy	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild
	[Hyperplasia TGLS = 1-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 348	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 75.0 MG/KG	DISP: Terminal Sacrifice	HISTO: 0501168

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Inflammation	Minimal
		Mineralization	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus			
Note: physiologic dilatation = one horn			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
Note: hepatocellular adenoma on slide 6			
[Hyperplasia TGLS = 2,3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
[Inflammation TGLS = 4-3+4]			
* Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501169

ORGAN AND ACCOUNTABLE SITE STATUS

	Glands	Dilatation	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501170

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	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Mesentery		Necrosis	Moderate
[Necrosis TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Trachea		Inflammation	Minimal
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 75.0 MG/KG

DISP: Terminal Sacrifice

HISTO: 0501170

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 617

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Mammary Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
[Hyperplasia TGLS = 1-6+7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 351	TRT#: 8	SEX: Female	DAY ON TEST: 617
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501171

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Atrophy	Mild
		Cyst	Minimal
[Cyst TGLS = 3-11]			
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 582

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Moderate
Note: SS = amyloid negative [Nephropathy TGLS = 1-5]			
* Liver		Basophilic Focus	
	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 352	TRT#: 8	SEX: Female	DAY ON TEST: 582
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501172

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Pancreatic	Hemorrhage	Moderate
[Hemorrhage TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Parathyroid Gland		Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 617

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Esophagus	* 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
* Ovary	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Eye		Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Cyst	Mild
		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 353	TRT#: 8	SEX: Female	DAY ON TEST: 617
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501173

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-6+7]	Hepatocyte	Necrosis	Minimal
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 4-15]			
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas		Adenoma	
	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skeletal Muscle		Hemorrhage	Moderate
[Hemorrhage TGLS = 5-14]			
* Urinary Bladder	Transit Epithe	Papilloma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 523

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Marked
* Eye			
Note: optic nerve = missing			
* Heart		Cardiomyopathy	Minimal
		Inflammation	Moderate
	Valve	Thrombosis	Marked
Note: numerous bacteria associated with inflammation			
* Kidney		Glomerulopathy	Hyaline, Marked
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Moderate
[Hyperplasia TGLS = 2-6+7]			
* Lung		Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 354	TRT#: 8	SEX: Female	DAY ON TEST: 523
	DOSE: 150 MG/KG Stop	DISP: Natural Death	HISTO: 0501174

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolus	Inflammation	Histiocytic, Mild
	Arteriole	Inflammation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Ovary		Cyst	Moderate
		Hemorrhage	Moderate
	[Cyst TGLS = 1-13]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLS = 4-8]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLS = 3-5]		
* Stomach, Glandular		Erosion	Mild

PRIMARY CAUSE OF DEATH - Heart Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 617

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Marked
Note: SS = amyloid negative			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Moderate
	Portal	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-13]			
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 355	TRT#: 8	SEX: Female	DAY ON TEST: 617
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501175

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Moderate Marked
	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Ovary		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Marked
* Uterus		Hemorrhage Inflammation	Moderate Moderate

Note: lumen = dilated
[Hemorrhage TGLS = 3-14]

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 524

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Uterus			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Mild
* Eye		Inflammation	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
Note: missing = left kidney			
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal

[Hyperplasia TGLS = 1-6+7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 356	TRT#: 8	SEX: Female	DAY ON TEST: 524
	DOSE: 150 MG/KG Stop	DISP: Natural Death	HISTO: 0501176

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Hemorrhage	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
	Arteriole	Inflammation	Mild
	Interstitialium	Mineralization	Minimal
Note: erythrophagocytosis evident			
* Nose		Inflammation	Minimal
		Thrombosis	Moderate
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Glandular		Mineralization	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 691

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Clitoral Gland	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Esophagus		Inflammation	Minimal
* Heart		Cardiomyopathy	Moderate
	Artery	Inflammation	Moderate
		Schwannoma Benign	
* Intestine Large, Cecum		Inflammation	Moderate
* Kidney		Glomerulopathy	Hyaline, Moderate
		Leukemia Mononuclear	
	Cortex	Mineralization	Minimal
		Nephropathy	Marked
Note: SS = amyloid negative			
[Nephropathy TGLS = 7-5]			
* Liver	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 4,5-6+7]			
[Leukemia Mononuclear TGLS = 3,6-6+7+14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 357	TRT#: 8	SEX: Female	DAY ON TEST: 691
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501177

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolus	Inflammation Leukemia Mononuclear	Histiocytic, Minimal
* Lymph Node, Mesenteric		Hemorrhage Leukemia Mononuclear	Minimal
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Moderate
* Ovary	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Moderate
* Parathyroid Gland		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Adenoma TGLS = 8-8]		
* Spleen		Adenoma	
	[Leukemia Mononuclear TGLS = 2-13]	Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 369

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Mammary Gland
* Pituitary Gland	* Skin	* Thymus	* Trachea

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Clitoral 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, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Eye			
Note: one eye missing			
* Heart		Cardiomyopathy	Minimal
* Lung		Bacterium	
		Hemorrhage	Mild
		Inflammation	Suppurative, Marked
* Nose		Inflammation	Moderate

PRIMARY CAUSE OF DEATH

- Lung Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 471

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Parathyroid Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6+7]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary		Atrophy	Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 359	TRT#: 8	SEX: Female	DAY ON TEST: 471
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501179

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Stomach, Glandular		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 604

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Moderate
[Mineralization TGLS = 2-15]			
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
		Mineralization	Moderate
* Kidney		Glomerulopathy	Hyaline, Mild
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Moderate
		Fatty Change	Moderate
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
[Fatty Change TGLS = 6-14]			
[Hyperplasia TGLS = 5-14]			
* Lung		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 360	TRT#: 8	SEX: Female	DAY ON TEST: 604
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501180

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitial	Mineralization	Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 3-13]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
Oral Mucosa	Pharyngeal	Hyperplasia	Mild
* Ovary		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Stomach, Glandular		Mineralization	Mild
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 349

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

Blood Vessel		Mineralization	Mild
* Bone Marrow		Hyperplasia	Marked
* Brain		Thrombosis	Minimal
Note: intravascular bacteria			
* Heart		Cardiomyopathy	Minimal
		Inflammation	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Necrosis	Mild
[Hyperplasia TGLS = 1-6+7]			
* Lung		Hemorrhage	Moderate
	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 2-13]			
* Nose	Olfactory Epi	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 349

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501181

ORGAN AND ACCOUNTABLE SITE STATUS

- * Pancreas
- * Stomach, Glandular
- * Uterus

Olfactory Epi
Acinus

Inflammation
Metaplasia
Atrophy
Mineralization

Moderate
Respiratory, Moderate
Moderate
Mild

Note: physiologic dilatation (bilateral, horn)

PRIMARY CAUSE OF DEATH

- Liver Bile Duct Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 538

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
[Fibrous Osteodystrophy TGLS = 3-2]			
* Bone Marrow		Hyperplasia	Mild
* Eye	Retina	Atrophy	Mild
		Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 362	TRT#: 8	SEX: Female	DAY ON TEST: 538
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501182

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Interstitium	Mineralization	Minimal
	Olfactory Epi	Degeneration	Mild
		Inflammation	Minimal
* Parathyroid Gland	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland		Hyperplasia	Moderate
* Stomach, Glandular	Pars Distalis	Hyperplasia	Mild
* Trachea		Mineralization	Mild
		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 538

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal
	[Hyperplasia TGLS = 2,4-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Deep Cervical	Hemorrhage	Moderate
	[Hemorrhage TGLS = 6-15]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[Hemorrhage TGLS = 5-14]		
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 538

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501183

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland

Hyperplasia

Mild

* Spleen

Hyperplasia

Lymphoid, Mild

[Hyperplasia TGLS = 3-13]

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 470

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Clear Cell Focus	
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
Note: adenoma found on slide 6 [Hyperplasia TGLS = 1-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 364	TRT#: 8	SEX: Female	DAY ON TEST: 470
	DOSE: 150 MG/KG Stop	DISP: Natural Death	HISTO: 0501184

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-3+4]			
* Lymph Node, Mesenteric		Hemorrhage	Marked
[Hemorrhage TGLS = 2-6]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 471

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Intestine Large, Colon		Inflammation	Minimal
* Intestine Large, Rectum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
		[Hyperplasia TGLS = 2-6+7]	
* Lung	Alveolus	Inflammation	Histiocytic, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 365	TRT#: 8	SEX: Female	DAY ON TEST: 471
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501185

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 1-11]		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:37
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 559

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 2,4-5]			
* Liver		Basophilic Focus	
	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Mild
	Interstitium	Mineralization	Mild
Lymph Node	Pancreatic	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 366	TRT#: 8	SEX: Female	DAY ON TEST: 559
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501186

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Hyperplasia	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLS = 5-14]			
* Thymus		Ectopic Parathyroid Gland	Minimal

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
-------------------------------	----------------------

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 586

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 3-9]		
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Leukemia Mononuclear	
* Liver	Hepatocyte	Nephropathy	Moderate
		Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 367	TRT#: 8	SEX: Female	DAY ON TEST: 586
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501187

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Atrophy	Mild
* Pancreas	Acinus	Atrophy	Moderate
	Duct	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
		Ulcer	Moderate
	[Ulcer TGLS = 4-13]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 533

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Glomerulopathy	Hyaline, Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
	Lymph Node	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-13]		
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 533

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501188

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 5-14]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-5]

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 604

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye			
Note: missing = one eye			
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Moderate
Note: TGL3 = myodegeneration associated with cardiomyopathy [Cardiomyopathy TGLS = 3-13]			
* Intestine Large, Cecum		Inflammation	Moderate
		Ulcer	Moderate
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 369	TRT#: 8	SEX: Female	DAY ON TEST: 604
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501189

ORGAN AND ACCOUNTABLE SITE STATUS

	Oval Cell	Hyperplasia Inflammation	Mild Mild
	Hepatocyte	Necrosis	Moderate
[Hyperplasia TGLS = 2-6+7]			
* Lung	Alveolar Epith Alveolus Interstitial	Hyperplasia Inflammation Mineralization	Minimal Histiocytic, Minimal Minimal
* Nose	Olfactory Epi	Degeneration Inflammation	Mild Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Glandular		Erosion	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	- Heart Atrium Thrombosis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 604

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 1,2-6+7+13]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 593

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye	Optic Nerve	Atrophy	Mild
	Retina	Atrophy	Mild
	Note: unilateral optic nerve atrophy found in slide 9 (brain)		
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 1,2-6+7+13]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
		Thrombosis	Mild
* Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 371	TRT#: 8	SEX: Female	DAY ON TEST: 593
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501191

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Olfactory Epi Acinus	Metaplasia Atrophy	Respiratory, Mild Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Glandular	Epithelium	Erosion Hyperplasia Mineralization	Moderate Mild Mild
[Erosion TGLS = 6-16]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia Inflammation	Minimal Minimal
Note: TGL4 = NCL			
* Uterus	Cervix	Cyst Hydrometra	Moderate Moderate
[Cyst TGLS = 3-14]			
[Hydrometra TGLS = 5-15]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 621

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Marked
		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 3-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	[Inflammation TGLS = 4-3]		
Lymph Node	Pancreatic	Hemorrhage	Moderate
	[Hemorrhage TGLS = 1-13]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 621

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501192

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Atrophy	Moderate
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 594

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: hepatocellular adenoma on slide 6			
[Hyperplasia TGLS = 6,7-6+7]			
* Lung		Leukemia Mononuclear	
	Interstitium	Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 373	TRT#: 8	SEX: Female	DAY ON TEST: 594
	DOSE: 150 MG/KG Stop	DISP: Natural Death	HISTO: 0501193

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Glands Olfactory Epi	Degeneration Dilatation Metaplasia	Mild Minimal Respiratory, Mild
* Ovary		Atrophy	Moderate
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 5-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Glandular		Mineralization	Moderate
* Urinary Bladder	Transit Epithe	Papilloma	
Note: luminal hemorrhage associated with papilloma			
Note: TGL2 = NCL			
[Papilloma TGLS = 3-13]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 643

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Minimal

Note: hepatocellular adenoma = slide 6

[Hyperplasia TGLS = 2-6+7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 374	TRT#: 8	SEX: Female	DAY ON TEST: 643
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501194

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Deep Cervical	Hemorrhage	Mild
[Hemorrhage TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
Oral Mucosa	Olfactory Epi	Metaplasia	Respiratory, Mild
	Pharyngeal	Hyperplasia	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 4-13]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 548

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Mammary Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder	* Uterus	

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Mild
		Nephropathy	Marked
Note: right kidney = missing [Nephropathy TGLS = 1-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
[Hyperplasia TGLS = 2,3-6+7]			
* Lung	Alveolus	Hemorrhage	Mild
	Interstitialium	Inflammation	Histiocytic, Minimal
		Mineralization	Mild
* Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 548

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501195

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 390

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501196

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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Minimal
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
	[Hyperplasia TGLS = 2-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Carcinoma	
	[Carcinoma TGLS = 1-5]		

PRIMARY CAUSE OF DEATH

- Urinary Bladder Transit Epithe Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 390

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501196

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 450

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501197

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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Eye			
Note: optic nerve in slide 9			
* Heart		Leukemia Mononuclear	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6+7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-14]		
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 450

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501197

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-13]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 503

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Minimal
	[Hyperplasia TGLS = 1-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Mild
	Note: inflammation associated with eosinophilic crystals and yellow material		
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Uterus		Hydrometra	Moderate
	[Hydrometra TGLS = 2-11]		

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 503

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501198

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 338

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Hemorrhage	Marked
		Inflammation	Marked
	[Inflammation TGLS = 1-10]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Minimal
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
	[Inflammation TGLS = 2-3+4]		
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Parathyroid Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 338

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501199

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Eye Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 607

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Mammary Gland	* Ovary	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye			
Note: optic nerve in slide 9			
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Hyperplasia TGLS = 4,5,6,7,8,9-6+7+13+14+15]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 380	TRT#: 8	SEX: Female	DAY ON TEST: 607
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501200

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Moderate Moderate
* Pancreas	Olfactory Epi	Metaplasia	Respiratory, Moderate
* Parathyroid Gland	Duct	Cyst	Minimal
* Spleen		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-5]			Lymphoid, Mild
* Stomach, Glandular		Mineralization	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-13]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 19

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501201

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye			
Note: TGL1 = NCL			
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-13]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Minimal
Tooth	Peridont Tiss	Inflammation	Mild
* Trachea		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 574

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
		Fatty Change	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Necrosis	Mild
	[Hyperplasia TGLS = 2,3-6+7]		
* Lung		Hemorrhage	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 574

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501202

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Moderate
[Atrophy TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 578

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501203

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	* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Minimal
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hyperplasia TGLS = 1-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Atrophy	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 578

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501203

ORGAN AND ACCOUNTABLE SITE STATUS

[Papilloma TGLS = 2-13]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 537

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Brain			
Note: bacterial emboli			
* Heart		Cardiomyopathy	Mild
		Inflammation	Moderate
	Endocardium, Ventricle	Thrombosis	Moderate
Note: bacterial emboli in several vessels. Bacterial also enmeshed in thrombus.			
* Kidney		Glomerulopathy	Hyaline, Moderate
		Inflammation	Mild
		Nephropathy	Moderate
Note: bacterial emboli in glomerular tufts			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Necrosis	Moderate

[Hyperplasia TGLS = 2-6+7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 384	TRT#: 8	SEX: Female	DAY ON TEST: 537
	DOSE: 150 MG/KG Stop	DISP: Natural Death	HISTO: 0501204

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-6+7]			
* Lung		Hemorrhage	Moderate
	Alveolus	Inflammation	Histiocytic, Minimal
Note: bacterial emboli in capillaries			
[Hemorrhage TGLS = 1-3+4]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Inflammation	Moderate
		Necrosis	Lymphoid, Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Spleen		Hemorrhage	Mild
		Necrosis	Lymphoid, Mild
* Thyroid Gland		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 666

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Mammary Gland	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Hypertrophy	Mild
[Hypertrophy TGLS = 2-7]			
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
		Fatty Change	Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLS = 4-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 385	TRT#: 8	SEX: Female	DAY ON TEST: 666
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501205

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Glands Olfactory Epi	Degeneration Dilatation Metaplasia	Mild Minimal Respiratory, Mild
* Ovary		Atrophy	Moderate
* Parathyroid Gland		Hyperplasia	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia Ulcer	Mild Moderate
[Ulcer TGLS = 5-13]			
* Stomach, Glandular		Mineralization	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 516

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Rectum	* Pituitary Gland	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Moderate
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
* Lung		Hemorrhage	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitialium	Mineralization	Mild
* Parathyroid Gland		Hyperplasia	Marked
* Uterus			

Note: one uterine horn = missing

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 516

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501206

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 666

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Inflammation	Minimal
* Kidney		Glomerulopathy	Hyaline, Moderate
		Inflammation	Marked
		Nephropathy	Moderate
[Inflammation TGLS = 4-14]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Minimal
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
	Hepatocyte	Necrosis	Mild
[Hyperplasia TGLS = 3-6+7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 387	TRT#: 8	SEX: Female	DAY ON TEST: 666
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501207

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation	Mild Marked
	Olfactory Epi	Metaplasia Thrombosis	Respiratory, Moderate Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 1-13]		
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
	[Leukemia Mononuclear TGLS = 2-5]		
* Urinary Bladder		Inflammation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 586

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Mild
* Eye		Hemorrhage	Moderate
		Inflammation	Moderate
[Hemorrhage TGLS = 1-10]			
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 388	TRT#: 8	SEX: Female	DAY ON TEST: 586
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501208

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5,6-6+7]	Hepatocyte	Necrosis	Mild
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Deep Cervical	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Atrophy	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-14]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 593

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Moderate
* Eye		Hemorrhage	Marked
		Inflammation	Moderate
[Hemorrhage TGLS = 1-10]			
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Minimal
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
	Oval Cell	Hyperplasia	Minimal
		Inflammation	Minimal
[Hyperplasia TGLS = 2-6+7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 389	TRT#: 8	SEX: Female	DAY ON TEST: 593
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501209

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Hemorrhage	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitium	Mineralization	Mild
[Hemorrhage TGLS = 4-3+4]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Parathyroid Gland		Hyperplasia	Marked
* Stomach, Glandular		Mineralization	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 662

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Glomerulopathy	Hyaline, Marked
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Minimal
	[Hyperplasia TGLS = 2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Pigmentation	Hemosiderin, Mild
* Pituitary Gland		Hemorrhage	Moderate
	[Hemorrhage TGLS = 1-8]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 468

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Moderate
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Mild
	Hepatocyte	Regeneration	Moderate
	[Hyperplasia TGLS = 1,4-6+7]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Ovary		Atrophy	Mild
		Cyst	Mild
	[Cyst TGLS = 5-11]		

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 468

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501211

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 580

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Minimal
* Eye		Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Marked
	Cortex	Mineralization	Moderate
		Nephropathy	Marked
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 1-6+7]		
* Lung		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 392	TRT#: 8	SEX: Female	DAY ON TEST: 580
	DOSE: 150 MG/KG Stop	DISP: Natural Death	HISTO: 0501212

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitial	Mineralization	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Parathyroid Gland		Hyperplasia	Marked
* Stomach, Forestomach		Ulcer	Mild
* Stomach, Glandular		Mineralization	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 569

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Ovary	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Moderate
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas		Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 569

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501213

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 488

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501214

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

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Nose

OBSERVATIONS

- | | | | |
|----------|--------------------------------|----------------|----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Glomerulopathy | Hyaline, Marked |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Marked |
| | Oval Cell | Hyperplasia | Mild |
| | | Inflammation | Minimal |
| | [Hyperplasia TGLS = 1,2-6+7] | | |
| * Lung | Alveolus | Inflammation | Histiocytic, Minimal |

Note: inflammation associated with yellow material; aspiration suspected

PRIMARY CAUSE OF DEATH

- Lung Alveolus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 393

DOSE: 150 MG/KG Stop

DISP: Dosing Accident

HISTO: 0501215

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	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Glomerulopathy	Hyaline, Mild
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 1,2-6+7]		
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Duct	Cyst	Minimal
* Trachea		Hemorrhage	Moderate
		Perforation	Marked

[Perforation TGLS = 3-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 604

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Moderate
* Intestine Large, Colon		Mineralization	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 1-5]		
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLS = 2-6+7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Inflammation	Histiocytic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 396	TRT#: 8	SEX: Female	DAY ON TEST: 604
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501216

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Interstitial Olfactory Epi	Mineralization Degeneration Inflammation	Moderate Minimal Mild
* Ovary	Olfactory Epi Respirat Epith	Metaplasia Necrosis Atrophy	Respiratory, Minimal Mild Mild
* Parathyroid Gland		Cyst Hyperplasia	Mild Marked
* Stomach, Glandular		Mineralization	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 352

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Nose

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Inflammation	Moderate
Note: bacteria associated with inflammation			
* Intestine Large, Cecum		Inflammation	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Glomerulopathy	Hyaline, Moderate
		Nephropathy	Mild
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Mild
[Hyperplasia TGLS = 2-6+7]			
* Lung		Hemorrhage	Mild
	Alveolus	Inflammation	Histiocytic, Minimal
Lymph Node	Deep Cervical	Hemorrhage	Moderate
[Hemorrhage TGLS = 4-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 397	TRT#: 8	SEX: Female	DAY ON TEST: 352
	DOSE: 150 MG/KG Stop	DISP: Natural Death	HISTO: 0501217

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric Mesentery [Necrosis TGLS = 1-14]		Hemorrhage Necrosis	Moderate Moderate
* Skin [Atrophy TGLS = 3-13]	Hair Follicle	Atrophy	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Hydrometra Inflammation	Mild Mild

PRIMARY CAUSE OF DEATH - Heart Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 611

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Eye		Inflammation	Minimal
* Heart		Cardiomyopathy	Moderate
		Mineralization	Moderate
* Intestine Large, Rectum		Erosion	Mild
* Kidney		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 3,4-6+7]			
* Lung	Alveolus	Inflammation	Histiocytic, Minimal
	Interstitialium	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 398	TRT#: 8	SEX: Female	DAY ON TEST: 611
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501218

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Moderate
	Olfactory Epi	Metaplasia	Respiratory, Moderate
	Olfactory Epi	Necrosis	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		
* Stomach, Glandular		Mineralization	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 550

DOSE: 150 MG/KG Stop

DISP: Natural Death

HISTO: 0501219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------|---------------------|---------------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Rectum | * Mammary Gland |
| * Ovary | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Thymus | * Thyroid Gland | * Trachea |
| * Uterus | | | |

MISSING

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Pancreas | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | | | |

OBSERVATIONS

- | | | | |
|-----------------------------------|----------------|----------------|----------------------|
| * Adren Cortex | | | |
| Note: missing = one adrenal gland | | | |
| * Heart | | Cardiomyopathy | Mild |
| | | Mineralization | Minimal |
| * Kidney | | Glomerulopathy | Hyaline, Marked |
| | Cortex | Mineralization | Minimal |
| | | Nephropathy | Moderate |
| Note: missing = left kidney | | | |
| * Lung | Alveolus | Inflammation | Histiocytic, Minimal |
| * Nose | Olfactory Epi | Degeneration | Moderate |
| | | Inflammation | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Ovary | | | |
| Note: missing = left ovary | | | |
| * Urinary Bladder | Transit Epithe | Carcinoma | |
| [Carcinoma TGLS = 1-5] | | | |

PRIMARY CAUSE OF DEATH

- Urinary Bladder Transit Epithe Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 10/23/2014

Time Report Requested: 00:09:38

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 611

DOSE: 150 MG/KG Stop

DISP: Moribund Sacrifice

HISTO: 0501220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Mild
* Eye		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
* Kidney		Cyst	Moderate
		Glomerulopathy	Hyaline, Moderate
	Cortex	Mineralization	Mild
		Nephropathy	Marked
			[Cyst TGLS = 1-13]
			[Nephropathy TGLS = 2-5+13]
* Liver	Hepatocyte	Cellular Alteration	Diffuse, Moderate
	Bile Duct	Cyst	Mild
	Portal	Fibrosis	Mild
	Bile Duct	Hyperplasia	Marked
	Oval Cell	Hyperplasia	Mild
		Inflammation	Minimal
	Hepatocyte	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99020-05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 00:09:38
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 400	TRT#: 8	SEX: Female	DAY ON TEST: 611
	DOSE: 150 MG/KG Stop	DISP: Moribund Sacrifice	HISTO: 0501220

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3,4-6+7]			
* Lung	Alveolar Epith Alveolus Interstitial	Hyperplasia Inflammation Mineralization	Minimal Histiocytic, Minimal Mild
* Nose	Olfactory Epi Olfactory Epi	Degeneration Inflammation Metaplasia	Mild Moderate Respiratory, Moderate
* Ovary		Atrophy	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE