

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C99023  
**Lock Date:** 12/22/2004  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 09/25/2007

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 688

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400441

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
[ Carcinoma TGLS = 3-16 ]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 4-17 ]			
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 5-19 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
Peripheral Nerve	Axon	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 688
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400441

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-14 ]			
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Preputial Gland	Adenoma	
CONTRIBUTORY CAUSE OF DEATH	- Islets;Pancreatic	Carcinoma	

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Mild
Lymph Node	Mediastinal	Ectasia	Mild
[ Ectasia TGLS = 3-16 ]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-8 ]		Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
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**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400442

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-15 ]		
* Thymus	Atrophy	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400443

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 667
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Brain		Ependymoma Benign	
		Hydrocephalus	Moderate
* Epididymis		Mesothelioma Malignant	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
		Pigmentation	Moderate
* Liver	Centrilobular	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Moderate

[ Mesothelioma Malignant TGLS = 2-14 ]  
[ Necrosis TGLS = 3,6-14+15 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 667
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400444

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Mesothelioma Malignant	Metastatic (Epididymis)
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell Tunic	Adenoma	
	[ Adenoma TGLS = 4-11 ]		
	[ Mesothelioma Malignant TGLS = 5-11 ]		
* Thymus		Atrophy	Moderate

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PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400445

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	* Mammary Gland	* Parathyroid Gland
Peripheral Nerve	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Necrosis	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-6+7 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-15 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[ Hyperplasia TGLS = 1-14 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-15 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 724
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400445

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Erosion	Minimal
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 684
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400446

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* 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	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Cyst	
		Pigmentation	Porphyrin, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-6+7 ]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
	[ Fibrosis TGLS = 1-5 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 684
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400446

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<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

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

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 G/KG

DISP: Natural Death

HISTO: 0400447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymsus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Inflammation	Granulomatous, Marked
		Necrosis	Moderate
	[ Inflammation TGLS = 2-14 ]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
* Stomach, Glandular		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-11 ]		

PRIMARY CAUSE OF DEATH

- Pancreas Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 611

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Vacuolization Cytoplasmic	Focal, Moderate
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Clear Cell Focus	
* Lung		Inflammation	Minimal
		Sarcoma	Metastatic (Skin)
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Sarcoma	
Note: The inguinal mass identified as being in the mammary gland at necropsy was diagnosed microscopically as a Sarcoma of the skin [ Sarcoma TGLS = 1-14 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Inflammation	Chronic, Minimal
		Degeneration	Minimal
* Pancreas	Duct	Inflammation	Chronic Active, Minimal
	Acinus	Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 1-8 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400449

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thyroid Gland	C Cell	Adenoma	Multiple
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PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400450

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	* 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

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thyroid Gl			
Note: Only one present.			
* Thyroid Gland	Follicle	Carcinoma	
Note: Only one present.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

---

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400450

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 3-15 ]

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 11

TRT#: 1

DOSE: 0 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0400451

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Lipoma	
		Nephropathy	Minimal
	[ Lipoma TGLS = 3-14 ]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
	[ Inflammation TGLS = 1-12 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-11 ]		
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400451

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 474

DOSE: 0 G/KG

DISP: Natural Death

HISTO: 0400452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland was missing			
* Bone		Osteosarcoma	
Note: The gross lesion described as mediastinal mass was judged to be a bone tumor			
[ Osteosarcoma TGLS = 1-14 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 2-3+4 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 667

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Centrilobular	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
	[ Adenoma TGLS = 1-14 ]		
* Prostate		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

---

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400453

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Interstit Cell

Hyperplasia

Minimal

[ Adenoma TGLS = 2-11 ]

\* Thymus

Atrophy

Mild

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**PRIMARY CAUSE OF DEATH**

- Preputial Gland Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 528

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Epididymis		Lymphoma Malignant	
* Eye		Cataract	Moderate
[ Cataract TGLS = 1-10 ]			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Small, Duodenum		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Intestine Small, Jejunum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Liver		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-6+7 ]			
* Lung		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Lymphoma Malignant	
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-13 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 528
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400454

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant	Minimal
[ Lymphoma Malignant TGLS = 5-5 ]			
* Stomach, Forestomach		Inflammation Lymphoma Malignant	Chronic Active, Moderate
		Ulcer	Moderate
* Stomach, Glandular		Inflammation Mineralization	Chronic, Mild Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Bilateral, C Cell	Adenoma Cyst	
	C Cell	Hyperplasia	Mild
* Urinary Bladder		Lymphoma Malignant	

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PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400455

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 607

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-6+7 ]		
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 4-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-5 ]		
* Stomach, Glandular		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-11 ]		
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 16

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 607

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400456

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* 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		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Cyst	
		Inflammation	Chronic, Mild
[ Cyst TGLS = 2-12 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400458

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[ Clear Cell Focus TGLS = 3-15 ]			
* Lung		Inflammation	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Mild
Oral Mucosa		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 18	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400458

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 1-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[ Fibrosis TGLS = 1-14 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400460

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Angiectasis	Mild
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Ganglioneuroma Pheochromocytoma Benign	
[ Ganglioneuroma TGLS = 6-18 ]			
* Bone Marrow		Hyperplasia	Marked
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Hyperplasia	Mild
[ Hyperplasia TGLS = 4-6 ]			
* Preputial Gland		Adenoma	Multiple
Note: The mass (TGL # 2) identified at necropsy as a right inguinal mammary gland mass was examined microscopically and diagnosed as a preputial gland neoplasm.			
[ Adenoma TGLS = 1,2-14+15 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-16 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 674

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400461

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes  
[ Adenoma TGLS = 5-17 ]

Interstit Cell

Adenoma

\* Thymus

Atrophy

Mild

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**PRIMARY CAUSE OF DEATH**

- Heart Atrium Thrombosis

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400462

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
[ Eosinophilic Focus TGLS = 3-16 ]			
[ Hyperplasia TGLS = 4-17 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 1-14 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400462

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-14 ]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 689

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Cyst	
		Leukemia Mononuclear	
		Nephropathy	Minimal
[ Cyst TGLS = 5-16 ]			
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-16 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 24	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 689
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400464

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Glandular	Epithelium	Ectasia Leukemia Mononuclear	Minimal
* Testes [ Adenoma TGLS = 1-14 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400465

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
[ Nephropathy TGLS = 2-5 ]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400465

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 26

TRT#: 1

DOSE: 0 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400466

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	[ Leukemia Mononuclear TGLS = 2-6+7 ]	Leukemia Mononuclear	
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-14 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 4-11 ]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400467

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Prostate		Hyperplasia	Minimal
* Skin		Keratoacanthoma	
		[ Keratoacanthoma TGLS = 1-14 ]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 2-15 ]	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 27

**TRT#:** 1

**DOSE:** 0 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729

**HISTO:** 0400467

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* 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
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[ Adenoma TGLS = 1-14 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400469

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Inflammation	Chronic, Mild
		Inflammation	Suppurative, Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Skin	Sebaceous Gl	Adenoma	
	[ Adenoma TGLS = 1-14 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 29	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400469

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-15 ]			
* Thyroid Gland	Follicle	Adenoma	
	C Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 3-8 ]			

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 528

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-6+7 ]		
* Lung		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Atrophy	Mild
	[ Atrophy TGLS = 3-5 ]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
	[ Adenoma TGLS = 2-11 ]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Adrenal Medulla		Hyperplasia	Mild
[ Pheochromocytoma Malignant TGLS = 2-15 ]		Pheochromocytoma Malignant	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 5-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 4-8 ]			
* Preputial Gland		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 31	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400471

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin [ Keratoacanthoma TGLS = 1-14 ]		Keratoacanthoma	
* Testes [ Adenoma TGLS = 3-11 ]	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Papilloma	

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 32

TRT#: 1

DOSE: 0 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney	Transit Epithe	Carcinoma	
		Hydronephrosis	Moderate
		Nephropathy	Minimal
[ Carcinoma TGLS = 2-14 ]			
[ Hydronephrosis TGLS = 1-14 ]			
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400472

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 3-15 ]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 33

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400473

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
[ Inflammation TGLS = 2-15 ]			
* Lung		Inflammation	Minimal
		Metaplasia	Osseous, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 33

**TRT#:** 1

**DOSE:** 0 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729

**HISTO:** 0400473

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 516

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400474

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Oral Mucosa		Squamous Cell Papilloma	
Note: TGL #1 was described grossly as a tooth tumor, but microscopic examination showed that it was an oral cavity neoplasm [ Squamous Cell Papilloma TGLS = 1-1 ]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Papilloma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Histiocytic Sarcoma	
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Moderate
		Histiocytic Sarcoma	
	Bile Duct	Hyperplasia	Mild
	[ Histiocytic Sarcoma TGLS = 2-6+7+15 ]		
* Lung		Histiocytic Sarcoma	
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 5-16 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
	[ Adenoma TGLS = 1-14 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 726
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400475

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-5 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-11 ]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	- Liver	Histiocytic Sarcoma	

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* 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
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization Nephropathy	Minimal Minimal
* Liver	Bile Duct	Basophilic Focus Hyperplasia Inflammation	Mild Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Adenoma Atrophy Inflammation	Mild Chronic, Moderate
[ Adenoma TGLS = 1-14 ]			
[ Inflammation TGLS = 2-15 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

---

**ANIMAL ID:** 36

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 674

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400476

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 3-11 ]

\* Thyroid Gland

Follicle

Carcinoma

[ Carcinoma TGLS = 4-8 ]

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PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 429

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Skin		Basal Cell Carcinoma	
	[ Basal Cell Carcinoma TGLS = 1-14 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-11 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Skin Basal Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 474

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hydrocephalus Oligodendroglioma Benign	Moderate
[ Hydrocephalus TGLS = 1-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Brain Oligodendroglioma Benign

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
		[ Leukemia Mononuclear TGLS = 3-6+7 ]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 7-19 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 5-17 ]	
Mesentery	Fat	Necrosis	Mild
		[ Necrosis TGLS = 6-18 ]	
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400479

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 1-14 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-15 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-16 ]			
* Thymus		Atrophy	Moderate
		Leukemia Mononuclear	
* Thyroid Gland	Bilateral, C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-14 ]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 536

DOSE: 0 G/KG

DISP: Natural Death

HISTO: 0400481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Leukemia Mononuclear	
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-6+7 ]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-17 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 5-16 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[ Fibrosis TGLS = 4-15 ]			
[ Leukemia Mononuclear TGLS = 3-14 ]			
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 41

**TRT#:** 1

**DOSE:** 0 G/KG

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:** 536

**HISTO:** 0400481

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes  
[ Adenoma TGLS = 6-11 ]

Bilateral, Interstit Cell

Leukemia Mononuclear

Ulcer

Adenoma

Moderate

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 42

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400482

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
		Metaplasia	Osseous, Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 42

**TRT#:** 1

**DOSE:** 0 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400482

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Moderate

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Hyperplasia	Minimal
		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-14 ]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 684

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Alveolus	Emphysema	Moderate
		Inflammation	Moderate
[ Emphysema TGLS = 5-3+4 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-14 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 6-8 ]			
* Preputial Gland		Adenoma	
[ Adenoma TGLS = 1-15 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 684

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400484

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-11 ]

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

- Lung Inflammation

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone		Chordoma	
Note: The mass described grossly as a spinal cord mass was examined microscopically and diagnosed as a bone neoplasm [ Chordoma TGLS = 3-15 ]			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Lung		Chordoma	Metastatic (Bone)
[ Chordoma TGLS = 2-3+4 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 45

**TRT#:** 1

**DOSE:** 0 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400485

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-14 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 47

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400487

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Duct	Cyst	
	Acinus	Hyperplasia	Mild
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
		[ Fibroma TGLS = 2-14 ]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 1-11 ]	
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

---

**ANIMAL ID:** 47

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400487

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 48

TRT#: 1

DOSE: 0 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0400488

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 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	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
	[ Hepatodiaphragmatic Nodule TGLS = 2-15 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
	[ Adenoma TGLS = 4-8 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-14 ]		
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 48

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400488

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

Follicle

Hyperplasia

Mild

[ Adenoma TGLS = 3-8 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 715

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 2-8 ]			
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Minimal
Skeletal Muscle		Rhabdomyosarcoma	
[ Rhabdomyosarcoma TGLS = 3-15 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 715

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400489

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Epididymis		Mesothelioma Malignant	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-14 ]		
* Lung		Metaplasia	Osseous, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 2-8 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 50

**TRT#:** 1

**DOSE:** 0 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729

**HISTO:** 0400490

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Thymus

Atrophy

Marked

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Atrophy	Mild
		Pigmentation	Porphyrin, Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
[ Adenoma TGLS = 3-16 ]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 51	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400491

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroma TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-17 ]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Adenoma	

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400492

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

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Moderate
		Nephropathy	Mild
* Liver	Renal Tubule	Nephrosis	Minimal
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
		[ Keratoacanthoma TGLS = 1-14 ]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 2-15 ]	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 52

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400492

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400493

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization Nephropathy	Moderate Mild
	Renal Tubule	Nephrosis	Minimal
* Liver	Bile Duct	Hyperplasia Inflammation	Mild Chronic, Mild
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 3-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
[ Adenoma TGLS = 2-8 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Sebaceous Gl	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 53

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400493

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Cyst	
	Papilla	Mineralization	Moderate
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Minimal
* Skin	Subcut Tiss	Lipoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 54	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400494

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lipoma TGLS = 1-14 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Adenoma	
[ Adenoma TGLS = 3-8 ]			
PRIMARY CAUSE OF DEATH	-		

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
* Liver		Nephrosis	Mild
	Bile Duct	Clear Cell Focus	
		Hyperplasia	Mild
* Nose	Olfactory Epi	Inflammation	Chronic, Minimal
		Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Duct	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 2-8 ]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-14 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 55

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400495

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex [ Hyperplasia TGLS = 1-8 ]	Capsule	Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Mild
	Renal Tubule	Nephropathy	Mild
[ Nephropathy TGLS = 2-5 ]		Nephrosis	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 56	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400496

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 3-11 ]	Bilateral, Interstit Cell	Adenoma
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 550

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Kidney		Leukemia Mononuclear	
	Papilla	Mineralization	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6+7 ]			
* Lung		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-14 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400498

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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Moderate
		Nephropathy	Mild
* Liver	Renal Tubule	Nephrosis	Minimal
		Angiectasis	Mild
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 58

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400498

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Renal Tubule	Cyst	
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Mild
[ Cyst TGLS = 3-5 ]			
[ Nephropathy TGLS = 5-14 ]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 4-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 59	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400499

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Hematopoietic Cell Proliferation TGLS = 1-5 ]		Hematopoietic Cell Proliferation	Minimal
* Testes [ Adenoma TGLS = 2-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 60

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400500

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Oncocytic, Minimal
	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Moderate
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

---

**ANIMAL ID:** 60

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400500

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Vacuolization Cytoplasmic	Minimal
[ Adenoma TGLS = 4-16 ]			
* Eye	Cornea	Inflammation	Suppurative, Moderate
	Sclera	Metaplasia	Osseous, Minimal
[ Inflammation TGLS = 1-10 ]			
* Harderian Gland		Carcinoma	
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
[ Fatty Change TGLS = 3-15 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 61

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400501

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testes [ Adenoma TGLS = 2-14 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

---

PRIMARY CAUSE OF DEATH

- Eye Cornea Inflammation

CONTRIBUTORY CAUSE OF DEATH

- Harderian Gland Carcinoma

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Papilla	Hyperplasia	Minimal
		Mineralization	Moderate
		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Regeneration	Mild
[ Regeneration TGLS = 4-6+7 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 5-16 ]			
* Skin	Subcut Tiss	Fibrosarcoma	
Note: The right thoracic mass identified at necropsy as a mammary tumor was noted at microscopic examination to be a neoplasm of the skin			
[ Fibrosarcoma TGLS = 1-14 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 611
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400502

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hematopoietic Cell Proliferation TGLS = 3-15 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400503

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 2-15 ]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 5-18 ]			
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 63	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400503

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin		Keratoacanthoma	
	Subcut Tiss	Lipoma	
Note: The mass described at necropsy as a thoracic mammary gland mass was examined microscopically and diagnosed as a dermal lipoma			
[ Keratoacanthoma TGLS = 1-14 ]			
[ Lipoma TGLS = 3-16 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-17 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Carcinoma	
	Follicle	Hyperplasia	Moderate

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 64

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400504

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Necrosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
		[ Leukemia Mononuclear TGLS = 4-6+7 ]	
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 64	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 726
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400504

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
		Ulcer	Moderate
[ Ulcer TGLS = 5-6 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-15 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 717

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Pituitary Gland
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OBSERVATIONS

* Brain	Cerebrum	Compression	Moderate
	Cranial Nerve	Schwannoma Malignant	
	[ Schwannoma Malignant TGLS = 3-15 ]		
* Eye	Antr Chamber	Inflammation	Suppurative, Moderate
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
		Ulcer	Mild
	[ Ulcer TGLS = 4-6 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 717
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400505

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 1-14 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

---

PRIMARY CAUSE OF DEATH - Brain Cranial Nerve Schwannoma Malignant

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 66

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400506

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Duct	Cyst	
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[ Adenoma TGLS = 1-14 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 66

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400506

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* 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	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mesenchymal Tumor Malignant	
		Mineralization	Minimal
		Nephropathy	Mild
		[ Mesenchymal Tumor Malignant TGLS = 1-14 ]	
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Mesenchymal Tumor Malignant	Metastatic (Kidney)
		[ Mesenchymal Tumor Malignant TGLS = 3-3+4 ]	
* Lymph Node, Mesenteric		Mesenchymal Tumor Malignant	Metastatic (Kidney)
		[ Mesenchymal Tumor Malignant TGLS = 4-6 ]	
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland		Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Seminal Vesicle		Mesenchymal Tumor Malignant	Metastatic (Kidney)
		Note: One seminal vesicle was missing	
* Spleen		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 67

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 713

**DOSE:** 0.25 G/KG

**DISP:** Natural Death

**HISTO:** 0400507

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-11 ]

\* Thymus

Atrophy

Marked

---

**PRIMARY CAUSE OF DEATH**

- Kidney Mesenchymal Tumor Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400508

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Papilla	Hyperplasia Mineralization Nephropathy	Mild Moderate Mild
* Liver	Renal Tubule Bile Duct	Nephrosis Hyperplasia Inflammation	Minimal Mild Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia Inflammation	Minimal Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Cyst	
* Preputial Gland	Pars Distalis	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 68

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400508

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 69

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400509

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-16 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 69	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400509

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroma TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400510

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland		Hyperplasia	Mild
		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400510

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Skin Keratoacanthoma

[ Keratoacanthoma TGLS = 1-14 ]

\* Testes Bilateral, Interstit Cell Adenoma

[ Adenoma TGLS = 2-11 ]

\* Thymus Atrophy Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 261

DOSE: 0.25 G/KG

DISP: Dosing Accident

HISTO: 0400511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node, Mandibular	Parathyroid Gland
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OBSERVATIONS

Esophagus		Perforation	Marked
[ Perforation TGLS = 1-14 ]			
Harderian Gland		Hyperplasia	Minimal
		Pigmentation	Porphyrin, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Minimal
Spleen		Atrophy	Moderate
Thymus		Atrophy	Moderate
		Inflammation	Suppurative, Moderate
Trachea	Peritrach Tiss	Inflammation	Chronic, Moderate
[ Inflammation TGLS = 2-14 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400512

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
	Renal Tubule	Nephropathy	Mild
* Liver		Nephrosis	Minimal
	Bile Duct	Clear Cell Focus	
		Hyperplasia	Mild
* Lung	Alveolar Epith	Inflammation	Chronic, Minimal
		Hyperplasia	Moderate
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400512

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 544

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Mild
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2,3-15 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Moderate
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-6+7 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-17 ]		
	[ Leukemia Mononuclear TGLS = 5-16 ]		
	[ Leukemia Mononuclear TGLS = 1-14 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400514

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear Necrosis	Focal, Mild
[ Leukemia Mononuclear TGLS = 2-15 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Carcinoma	
	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Mild
[ Carcinoma TGLS = 1-14 ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 75	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400515

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 3-11 ]

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
* Liver		Nephrosis	Mild
		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-15 ]		
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Hemosiderin, Mild
	[ Hemorrhage TGLS = 3-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 76	<b>TRT#:</b> 3 <b>DOSE:</b> 0.25 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 0400516
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland	Acinus	Hyperplasia	Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Inflammation	Chronic, Minimal
[ Adenoma TGLS = 1-11 ]		Adenoma	
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 77

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400517

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* 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
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
* Liver		Nephrosis	Mild
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 3 <b>DOSE:</b> 0.25 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 0400517
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Hyperplasia TGLS = 1-11 ]	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland Zymbal's Gland [ Carcinoma TGLS = 3-15 ]	C Cell	Hyperplasia Carcinoma	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* 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	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Renal Tubule	Cyst	
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Marked
[ Cyst TGLS = 3-15 ]			
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
[ Basal Cell Adenoma TGLS = 1-14 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 78	<b>TRT#:</b> 3 <b>DOSE:</b> 0.25 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 0400518
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Glandular	Epithelium	Ectasia Inflammation	Minimal Chronic, Minimal
* Testes [ Adenoma TGLS = 2-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [ Adenoma TGLS = 4-8 ]	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 704

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe Papilla	Hyperplasia	Mild
		Mineralization	Mild
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Necrosis	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 4-15 ]		
	[ Leukemia Mononuclear TGLS = 3-6+7 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 5-8 ]		
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 704
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400519

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-14 ]			
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Carcinoma	Metastatic (Kidney)
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Carcinoma	Metastatic (Kidney)
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney	Renal Tubule	Carcinoma	
	Papilla	Mineralization	Minimal
		Nephropathy	Minimal
[ Carcinoma TGLS = 3-15 ]			
* Liver		Carcinoma	Metastatic (Kidney)
	Bile Duct	Hyperplasia	Minimal
	Serosa	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Carcinoma	Metastatic (Kidney)
Mesentery		Carcinoma	Metastatic (Kidney)
[ Carcinoma TGLS = 1,2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 80	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 652
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400520

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Inflammation	Chronic, Mild
		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

---

**PRIMARY CAUSE OF DEATH** - Kidney Renal Tubule Carcinoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 578

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Moderate
		Necrosis	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
[ Necrosis TGLS = 4-15 ]			
[ Nephropathy TGLS = 5-5 ]			
* Liver	Centrilobular	Degeneration	Mild
* Lung		Carcinoma	Metastatic (Preputial Gland)
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Carcinoma	
[ Carcinoma TGLS = 1-14 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-5 ]			
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 81	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 578
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400521

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 2-11 ]

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400522

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	

Note: The mammary gland mass noted grossly was examined and diagnosed as a dermal neoplasm

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 82	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400522

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroma TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Thymus		Atrophy	Moderate

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PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Lymphoma Malignant	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Minimal
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-15 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-6 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Mild
* Spleen		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 83	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 684
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400523

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Lymphoma Malignant TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia Inflammation	Minimal Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked

---

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 621

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Moderate
		Necrosis	Moderate
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 85

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400525

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic Pheochromocytoma Benign	Mild Minimal
* Adrenal Medulla			
* Eye	Sclera	Metaplasia Pigmentation Cardiomyopathy	Osseous, Mild Porphyrin, Mild Minimal
* Harderian Gland			
* Heart			
* Kidney	Renal Tubule Transit Epithe  Papilla  Renal Tubule	Carcinoma Hyperplasia Inflammation Mineralization Nephropathy Nephrosis	Mild Suppurative, Focal, Mild Mild Moderate Moderate
			[ Carcinoma TGLS = 5-5 ] [ Nephropathy TGLS = 6-16 ]
* Liver	Bile Duct	Basophilic Focus Hyperplasia Inflammation	Mild Chronic, Minimal
			[ Hyperplasia TGLS = 4-6+7 ]
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
			[ Fibroadenoma TGLS = 1-15 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 3 <b>DOSE:</b> 0.25 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 0400525
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLS = 2-14 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-11 ]			
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400526

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Angiectasis	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	
	Acinus	Hyperplasia	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 86

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400526

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Glandular

Epithelium

Ectasia

Minimal

\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 1-11 ]

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400527

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver	Bile Duct	Clear Cell Focus	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
Note: The mass described as being in the mammary gland at necropsy was examined microscopically and diagnosed as a dermal neoplasm [ Fibroma TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 87	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400527

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testes [ Adenoma TGLS = 2-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Mild
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400528

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Leukemia Mononuclear TGLS = 2-5 ]			
* Stomach, Glandular	Epithelium	Ectasia Inflammation	Minimal Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 89

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400529

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Hyperplasia	Mild
* Skin		Hyperkeratosis	Minimal
[ Hyperkeratosis TGLS = 4-15 ]			
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 89

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400529

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Leukemia Mononuclear TGLS = 2-5 ]

\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 1-14 ]

\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	Multiple
* Epididymis		Mesothelioma Malignant	
	[ Mesothelioma Malignant TGLS = 2-15+16 ]		
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
* Liver		Nephrosis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin		Trichoepithelioma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400530

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Trichoepithelioma TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Malignant	
[ Adenoma TGLS = 3-11 ]			
* Thymus		Atrophy	Marked

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400531

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
		Sarcoma	
[ Sarcoma TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 91

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400531

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Marked

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 92

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400532

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
* Liver		Nephrosis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Inflammation	Minimal
		Degeneration	Minimal
* Pituitary Gland		Inflammation	Chronic Active, Minimal
		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[ Adenoma TGLS = 1-14 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 92

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400532

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Minimal

\* Thyroid Gland

Follicle

Hyperplasia

Moderate

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 93

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400533

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye	Retina	Degeneration	Moderate
	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 93

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400533

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Necrosis	Mild
		[ Hyperplasia TGLS = 2-6+7 ]	
		[ Necrosis TGLS = 3-15 ]	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
		[ Keratoacanthoma TGLS = 1-14 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

**ANIMAL ID:** 94

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400534

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 3

DOSE: 0.25 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 486

HISTO: 0400535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Papilla	Mineralization	Minimal
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 3-6 ]		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6+7 ]			
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-14 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-5 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 95

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 486

**DOSE:** 0.25 G/KG

**DISP:** Natural Death

**HISTO:** 0400535

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400536

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:15

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

**Lab:** BAT

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**ANIMAL ID:** 96

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400536

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400537

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	* Pituitary 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
		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-14 ]		
* Thyroid Gland	Bilateral, C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 97

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400537

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400538

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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Papilla	Hyperplasia	Minimal
		Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Cyst	
Note: The discolored Left Mandibular Lymph Node described at necropsy was examined microscopically and proved to be a Salivary Gland Cyst. [ Cyst TGLS = 1-14 ]			
* Skin	Subcut Tiss	Inflammation	Granulomatous, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400538

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-11 ]

* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Carcinoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 99

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400539

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Oncocytic, Moderate
	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Moderate
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
[ Adenoma TGLS = 2,3-5 ]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 99	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400539

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400540

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 1-8 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400540

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 2-14 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-16 ]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
Note: The mass described at necropsy as a mammary mass was a dermal fibroma as assessed microscopically			
[ Fibroma TGLS = 2-15 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-14 ]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 101

**TRT#:** 5  
**DOSE:** 0.5 G/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 666  
**HISTO:** 0400541

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Leukemia Mononuclear

\* Thyroid Gland

C Cell

Adenoma

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PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 102

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Mild
	Renal Tubule	Nephropathy	Moderate
		Nephrosis	Moderate
	[ Nephropathy TGLS = 2-5 ]		
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
		Ulcer	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibrous Histiocytoma	
	[ Fibrous Histiocytoma TGLS = 3-14 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 102	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400542

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-11 ]

* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 103

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400543

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Epididymis		Mesothelioma Benign	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Mild
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
	[ Nephropathy TGLS = 3-5 ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLS = 1-14 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 103	<b>TRT#:</b> 5 <b>DOSE:</b> 0.5 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 0400543
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 2-15 ]	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Benign	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 684

HISTO: 0400544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 2-14 ]	
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 104	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 684
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400544

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-11 ]

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 105

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 666

**DOSE:** 0.5 G/KG

**DISP:** Natural Death

**HISTO:** 0400545

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Marked
* Kidney	Papilla	Mineralization	Minimal
		Necrosis	Moderate
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
	Vein	Thrombosis	Moderate
[ Necrosis TGLS = 4-5 ]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 105	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 666
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0400545

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen		Congestion	Mild
		Necrosis	Focal, Moderate
[ Congestion TGLS = 2-5 ]			
[ Necrosis TGLS = 3-5 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Mild

---

PRIMARY CAUSE OF DEATH            - Heart Atrium Thrombosis

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400546

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
		Nephropathy	Moderate
* Liver	Renal Tubule	Nephrosis	Mild
		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 1-11 ]	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Brain		Leukemia Mononuclear	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Papilla	Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Renal Tubule	Nephrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 8-16 ]	
		[ Leukemia Mononuclear TGLS = 7-19 ]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 6-17 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 5-18 ]	
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 1-15 ]	
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Pituitary Gland		Angiectasis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 107	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400547

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-11 ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-3 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 108

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400548

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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 1-14 ]			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Carcinoma	
	Transit Epithe	Hyperplasia	Mild
	Papilla	Mineralization	Mild
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	Vein	Thrombosis	Mild
[ Nephropathy TGLS = 3-15+16 ]			
* Liver	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Duct	Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 108	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400548

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 2-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland		Cyst	

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
		Metaplasia	Osseous, Mild
	Papilla	Mineralization	Mild
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Moderate
[ Nephropathy TGLS = 2,3-5+15 ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:15

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 9

HISTO: 0400550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Esophagus	Inflammation	Chronic, Mild
* Harderian Gland	Pigmentation	Porphyrin, Minimal
* Heart	Cardiomyopathy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 111

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0400551

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	
	Papilla	Mineralization	Moderate
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-14 ]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 111

**TRT#:** 5

**DOSE:** 0.5 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729

**HISTO:** 0400551

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 112

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 549

HISTO: 0400552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-6+7 ]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Congestion	Mild
		Leukemia Mononuclear	
	[ Congestion TGLS = 1-5 ]		
	[ Leukemia Mononuclear TGLS = 2-14 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 549

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400552

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 4-11 ]

\* Thymus

Atrophy

Marked

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**PRIMARY CAUSE OF DEATH**

- Lung Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 113

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Moderate
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibrosarcoma	
		[ Fibrosarcoma TGLS = 1-14 ]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 2-11 ]	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 114

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 400554

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Mild
	Renal Tubule	Nephropathy	Moderate
		Nephrosis	Moderate
	[ Nephropathy TGLS = 4-5 ]		
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Cyst	
		Inflammation	Chronic, Mild
		Note: Based on histological examination, the enlarged axillary lymph nodes described grossly were diagnosed as mammary gland cysts	
			[ Cyst TGLS = 5-15 ]
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
			[ Adenoma TGLS = 6-8 ]
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 114	<b>TRT#:</b> 5 <b>DOSE:</b> 0.5 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 400554
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Hyperplasia Inflammation	Mild Chronic, Minimal
* Skin [ Fibroma TGLS = 1-14 ]	Subcut Tiss	Fibroma	
* Spleen [ Leukemia Mononuclear TGLS = 2-14 ]		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes [ Adenoma TGLS = 3-16 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Adenoma	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 115

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400555

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-11 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 116

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 673

HISTO: 0400556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Leukemia Mononuclear	
* Kidney	Papilla	Mineralization	Moderate
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-6+7 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Mild
		Leukemia Mononuclear	
	[ Hyperplasia TGLS = 4-15 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-14 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 116	<b>TRT#:</b> 5 <b>DOSE:</b> 0.5 G/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 673 <b>HISTO:</b> 0400556
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 3-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy Leukemia Mononuclear	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Adenoma	
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Mild
* Skin		Keratoacanthoma	
		[ Keratoacanthoma TGLS = 1-14 ]	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 2-14 ]	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400557

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* 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	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
			[ Clear Cell Focus TGLS = 3-6+7+15 ]
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 118	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400558

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-11 ]

* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Carcinoma	

Note: The enlarged deep cervical lymph node noted at necropsy corresponded microscopically to a thyroid follicular carcinoma

[ Carcinoma TGLS = 2-14 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 713

HISTO: 0400559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe Papilla	Hyperplasia	Minimal
	Renal Tubule	Mineralization	Moderate
	[ Nephropathy TGLS = 1-5+14 ]	Nephropathy	Marked
		Nephrosis	Marked
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-11 ]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 560

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Marked
		Necrosis	Moderate
		Nephropathy	Minimal
* Liver	Renal Tubule	Nephrosis	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
	[ Basal Cell Adenoma TGLS = 1-14 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-11 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 120

**TRT#:** 5

**DOSE:** 0.5 G/KG

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:** 560

**HISTO:** 0400560

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 121

**TRT#:** 5  
**DOSE:** 0.5 G/KG

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

**DAY ON TEST:** 730  
**HISTO:** 0400561

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Suppurative, Focal, Minimal
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Mild
[ Nephropathy TGLS = 2-5 ]			
* Liver		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 121

**TRT#:** 5

**DOSE:** 0.5 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400561

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400562

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Papilla	Hyperplasia	Mild
	Renal Tubule	Mineralization	Mild
	Vein	Nephropathy	Marked
		Nephrosis	Marked
		Thrombosis	Mild
[ Nephropathy TGLS = 2-5+15 ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400562

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	
	C Cell	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400563

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Chronic, Mild
* Kidney		Hemangioma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Moderate
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Bile Duct	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Duct	Cyst	
* Parathyroid Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 3-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Stomach, Glandular		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 123	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 704
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400563

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 1-11 ]	Bilateral, Interstit Cell	Ulcer Adenoma	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH - Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 124

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0400564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Cyst	
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
[ Cyst TGLS = 1-14 ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lymph Node			
Note: No corresponding microscopic lesion found for enlarged mediastinal lymph node described at necropsy			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400564

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* 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	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart	Valve	Thrombosis	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[ Hepatocellular Adenoma TGLS = 5-15 ]	
		[ Leukemia Mononuclear TGLS = 4-6+7+15 ]	
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
		[ Necrosis TGLS = 3-16 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 125	<b>TRT#:</b> 5 <b>DOSE:</b> 0.5 G/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 709 <b>HISTO:</b> 0400565
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Marked
[ Hyperplasia TGLS = 6-17 ]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Infarct	Moderate
		Leukemia Mononuclear	
[ Infarct TGLS = 7-18 ]			
[ Leukemia Mononuclear TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 126

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 551

HISTO: 0400566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Brain
* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Osteoma	
[ Osteoma TGLS = 4-16 ]			
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Marked
[ Adenoma TGLS = 2-14 ]			
* Liver	Serosa	Inflammation	Suppurative, Moderate
[ Inflammation TGLS = 3-15 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Duct	Cyst	
	Acinus	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 126	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 551
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400566

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH	- Bone Osteoma
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Inflammation

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Moderate
	[ Nephropathy TGLS = 4-5 ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Necrosis	Mild
	Mesentery	Mesothelioma Malignant	
	[ Mesothelioma Malignant TGLS = 5-15 ]		
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin		Ulcer	Moderate
	[ Ulcer TGLS = 1-14 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 666

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400567

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tunic

Mesothelioma Malignant

[ Adenoma TGLS = 3-11 ]

\* Thymus

Atrophy

Marked

---

**PRIMARY CAUSE OF DEATH**

- Mesentery Mesothelioma Malignant

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
		Inflammation	Minimal
Note: Fibrous Histiocytoma in Lung is malignant.			
[ Alveolar/Bronchiolar Adenoma TGLS = 3-4 ]			
[ Fibrous Histiocytoma TGLS = 4-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
Skeletal Muscle		Fibrous Histiocytoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 128	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 674
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400568

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Fibrous Histiocytoma TGLS = 2-14 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	

---

PRIMARY CAUSE OF DEATH - Skeletal Muscle Fibrous Histiocytoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain	Neuron	Necrosis	Focal, Moderate
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Papilla	Mineralization	Minimal
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Mild
[ Nephropathy TGLS = 1-5 ]			
* Liver	Centrilobular	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 130

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 666

HISTO: 0400570

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	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
	Myocardium	Mineralization	Moderate
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	[ Nephropathy TGLS = 1-5+14 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
	[ Inflammation TGLS = 2-12 ]		
* Prostate		Inflammation	Chronic, Mild
* Spleen		Atrophy	Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 130

**TRT#:** 5  
**DOSE:** 0.5 G/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 666  
**HISTO:** 0400570

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Glandular

\* Thyroid Gland

C Cell

Mineralization

Hyperplasia

Minimal

Mild

---

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 604

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe Papilla	Hyperplasia	Minimal
		Mineralization	Moderate
		Nephropathy	Minimal
* Liver	Renal Tubule Bile Duct	Nephrosis	Mild
		Hyperplasia	Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-6+7 ]		
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 2-15 ]		
* Nose	Olfactory Epi	Degeneration	Mild
* Prostate		Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3,4-5+14 ]		
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 131

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 604

**DOSE:** 0.5 G/KG

**DISP:** Natural Death

**HISTO:** 0400571

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-11 ]

\* Thymus

Atrophy

Marked

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**PRIMARY CAUSE OF DEATH**

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Mild
	Valve	Thrombosis	Mild
* Kidney	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-6+7 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-15 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 132	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 684
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400572

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 2-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy Leukemia Mononuclear	Marked

Note: Thymic tissue on slides #3 and 15

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

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 133

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Inflammation	Suppurative, Focal, Minimal
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Moderate
[ Nephropathy TGLS = 3-5+15 ]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 2-14 ]			
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
[ Hemorrhage TGLS = 4-16 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 5-17 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 133	<b>TRT#:</b> 5 <b>DOSE:</b> 0.5 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 0400573
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Duct Artery	Adenoma Cyst Inflammation	Chronic, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Minimal
* Testes [ Adenoma TGLS = 1-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 134

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 449

HISTO: 0400574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	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
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Papilla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-3+4+14 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-16 ]			
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 449

**DOSE:** 0.5 G/KG

**DISP:** Natural Death

**HISTO:** 0400574

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 1-15 ]

\* Stomach, Forestomach

Leukemia Mononuclear

\* Stomach, Glandular

Leukemia Mononuclear

\* Thymus

Atrophy

Moderate

---

**PRIMARY CAUSE OF DEATH**

- Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 135

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0400575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Renal Tubule	Adenoma	
	Papilla	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
		[ Keratoacanthoma TGLS = 1-14 ]	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 2-15 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 135

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400575

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Epithel Cell

Atrophy

Hyperplasia

Moderate

Moderate

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[ Adenoma TGLS = 1-11 ]	
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400576

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 137

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
	Renal Tubule	Nephropathy	Moderate
		Nephrosis	Mild
[ Nephropathy TGLS = 2-5 ]			
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 137

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400577

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 138

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 0400578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Mild
[ Adenoma TGLS = 6-5 ]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-6+7 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-14 ]			
[ Leukemia Mononuclear TGLS = 4-15 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 138	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400578

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland		Angiectasis	Mild
		Cyst	
	Pars Distalis	Hyperplasia	Mild
[ Angiectasis TGLS = 1-8 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Hyperkeratosis	Minimal
		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-5 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 5-11 ]			
* Thymus		Atrophy	Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Mild
	Renal Tubule	Nephropathy	Moderate
		Nephrosis	Marked
	[ Nephropathy TGLS = 2-5 ]		
* Liver		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 139	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400579

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1-11 ]

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 24

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400580

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow	Hyperplasia	Minimal
* Eye		
Note: Optic nerves are missing		
* Harderian Gland	Pigmentation	Porphyrin, Minimal
* Nose	Dysplasia	Mild
Note: Deviated nasal septum on the most anterior nasal section		

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400581

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Mild
	Renal Tubule	Nephropathy	Moderate
		Nephrosis	Moderate
[ Nephropathy TGLS = 1-5 ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 141

**TRT#:** 5

**DOSE:** 0.5 G/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400581

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 142

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 717

HISTO: 0400582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
	Papilla	Inflammation	Suppurative, Focal, Minimal
		Mineralization	Minimal
		Nephroblastoma	
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Marked
	[ Nephroblastoma TGLS = 3-16 ]		
	[ Nephropathy TGLS = 2-5+15 ]		
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 142	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 717
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0400582

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 1-14 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH - Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 143

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 666

HISTO: 0400583

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	Multiple
	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	[ Adenoma TGLS = 4-17 ]		
	[ Nephropathy TGLS = 3-5+16 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
	[ Adenoma TGLS = 1-14 ]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 143	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 666
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0400583

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-15 ]			
* Thymus		Atrophy	Moderate

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PRIMARY CAUSE OF DEATH - Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 144

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
		Leukemia Mononuclear	
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[ Hepatodiaphragmatic Nodule TGLS = 5-16 ]	
		[ Leukemia Mononuclear TGLS = 4-6+7 ]	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 3-15 ]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 144	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400584

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLS = 1-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Moderate
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 145

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 3-8 ]			
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5+14 ]			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
[ Eosinophilic Focus TGLS = 4-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 145	<b>TRT#:</b> 5 <b>DOSE:</b> 0.5 G/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 731 <b>HISTO:</b> 0400585
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 5-16 ]		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Granuloma Sperm	Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Duct	Cyst	
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 146

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400586

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 1-11 ]

\* Thymus

Atrophy

Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 648

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Moderate
	[ Nephropathy TGLS = 2-5 ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Minimal
	[ Leukemia Mononuclear TGLS = 4-6+7 ]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Angiectasis	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 147	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 648
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400587

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Leukemia Mononuclear TGLS = 3-14 ]			
* Stomach, Glandular	Epithelium	Ectasia Inflammation	Minimal Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 148

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* 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
* Seminal Vesicle	* Skin	* Spleen	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Cyst	
	Transit Epithe	Hyperplasia	Minimal
	Papilla	Mineralization	Mild
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Cyst TGLS = 3-15 ]			
[ Nephropathy TGLS = 2-5+15 ]			
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Pigmentation	Hemosiderin, Mild
Lymph Node	Mediastinal		
[ Pigmentation TGLS = 5-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Moderate
		Cyst	
[ Angiectasis TGLS = 1-8 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 148	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400588

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 4-11 ]			
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Inflammation	Chronic, Mild
* Intestine Large, Rectum		Inflammation	Chronic, Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
	Papilla	Mineralization	Moderate
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
		[ Nephropathy TGLS = 3-5+15 ]	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 2-5 ]	
* Stomach, Forestomach		Fibrosis	Marked
		Inflammation	Chronic Active, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 149	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400589

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibrosis TGLS = 4-16 ]		Ulcer	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-14 ]			
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 150

TRT#: 5

DOSE: 0.5 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 486

HISTO: 0400590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone		Osteosarcoma	
[ Osteosarcoma TGLS = 2-14 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
		Osteosarcoma	Metastatic (Bone)
* Kidney		Nephropathy	Minimal
[ Nephropathy TGLS = 1-5 ]			
* Liver		Inflammation	Chronic, Minimal
* Lung		Osteosarcoma	Metastatic (Bone)
[ Osteosarcoma TGLS = 3,4-3+4+15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 504

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400591

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

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular
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OBSERVATIONS

* Epididymis			
Note: One epididymis was missing			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
* Testes	Interstit Cell	Adenoma	
Note: One testis was missing			
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 536

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400592

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	Vein	Thrombosis	Moderate
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Minimal
		Necrosis	Mild
[ Necrosis TGLS = 3-6+7 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 484

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	Vein	Thrombosis	Moderate
	[ Nephropathy TGLS = 1-14+15 ]		
* Liver	Hepatocyte	Hypertrophy	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Spleen		Atrophy	Mild
	[ Atrophy TGLS = 2-5 ]		
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 494

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400594

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

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                               |                |                |                          |
|-------------------------------|----------------|----------------|--------------------------|
| * Harderian Gland             |                | Pigmentation   | Porphyrin, Moderate      |
| * Heart                       |                | Cardiomyopathy | Mild                     |
| * Kidney                      |                | Nephropathy    | Marked                   |
|                               | Renal Tubule   | Nephrosis      | Marked                   |
| [ Nephropathy TGLS = 2-5+14 ] |                |                |                          |
| * Liver                       | Hepatocyte     | Hypertrophy    | Mild                     |
| * Nose                        | Olfactory Epi  | Degeneration   | Minimal                  |
| * Pancreas                    | Acinus         | Atrophy        | Minimal                  |
| * Preputial Gland             |                | Inflammation   | Chronic, Mild            |
| * Spleen                      |                | Atrophy        | Mild                     |
| * Stomach, Forestomach        |                | Inflammation   | Chronic Active, Moderate |
|                               |                | Ulcer          | Moderate                 |
| * Testes                      | Interstit Cell | Adenoma        |                          |
|                               | Interstit Cell | Hyperplasia    | Mild                     |
| [ Adenoma TGLS = 1-11 ]       |                |                |                          |
| * Thymus                      |                | Atrophy        | Marked                   |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 67

DOSE: 1.0 G/KG

DISP: Dosing Accident

HISTO: 0400595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Esophagus	Muscularis, Periesoph Tiss	Hemorrhage Perforation	Mild
[ Perforation TGLS = 3-17 ]			
Harderian Gland		Pigmentation	Porphyrin, Minimal
Kidney		Nephropathy	Minimal
Liver		Hemorrhage	Moderate
[ Hemorrhage TGLS = 1,2-14+15+16 ]			
Lung			
Note: Emboli consisting of normal hepatic tissue present in veins within the lungs			
Nose	Olfactory Epi	Degeneration Inflammation	Moderate Chronic Active, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 474

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400596

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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Mild
	Papilla	Mineralization	Minimal
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	[ Adenoma TGLS = 3-15 ]		
	[ Nephropathy TGLS = 1,2-5+14 ]		
* Liver	Hepatocyte	Hypertrophy	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
* Spleen		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 4-11 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 157

TRT#: 7

DOSE: 1.0 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 457

HISTO: 0400597

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 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	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye			
Note: Both optic nerves were missing			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Ulcer	Moderate
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-14+15 ]			
* Liver		Hepatodiaphragmatic Nodule	
	Hepatocyte	Hypertrophy	Mild
[ Hepatodiaphragmatic Nodule TGLS = 2-16 ]			
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 157

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400597

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 439

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400598

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2,3-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
[ Hyperplasia TGLS = 1-11 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 516

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400599

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-14+15 ]			
* Liver	Hepatocyte	Hypertrophy	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-16 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Erosion	Mild
		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 497

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400600

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1,2-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Pituitary Gland		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
		Ulcer	Mild
[ Ulcer TGLS = 3-6 ]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 451

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400601

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Erosion	Moderate
		Inflammation	Chronic Active, Moderate
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 479

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400602

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	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5+14 ]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
[ Hepatodiaphragmatic Nodule TGLS = 3,4-15 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 162

**TRT#:** 7

**DOSE:** 1.0 G/KG

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:** 479

**HISTO:** 0400602

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 453

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Marked
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Spleen		Atrophy	Marked
[ Atrophy TGLS = 1-5 ]			
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 3-6 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 476

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400604

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye			
Note: Both optic nerves were missing			
* Harderian Gland		Atrophy	Moderate
		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-14+15 ]			
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 502

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* 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	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Minimal
* Harderian Gland		Hyperplasia	Mild
		Pigmentation	Porphyrin, Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Marked
	[ Nephropathy TGLS = 2-5+14 ]	Nephrosis	Marked
* Liver	Hepatocyte	Hypertrophy	Minimal
		Necrosis	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
* Preputial GI			
Note: One preputial gland was missing			
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLS = 1-15 ]		
* Spleen		Atrophy	Marked
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 165	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 502
	<b>DOSE:</b> 1.0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400605

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes [ Adenoma TGLS = 3-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH - Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 327

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400606

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Lung			
Note: Pulmonary hemosiderin is in alveolar macrophages			
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic, Moderate
		Necrosis	Moderate
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Thymus		Atrophy	Marked
* Urinary Bladder		Inflammation	Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 167

TRT#: 7

DOSE: 1.0 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 530

HISTO: 0400607

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 502

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-14+15 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 423

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400609

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
* Mammary Gland	* Pancreas	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Lung		Inflammation	Minimal
* Lymph Node, Mesenteric		Pigmentation	Hemosiderin, Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
[ Inflammation TGLS = 2-12 ]			
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 170

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 24

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400610

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Inflammation	Chronic, Moderate
		Pigmentation	Porphyrin, Minimal
* Stomach, Forestomach	Serosa	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 466

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 2-15 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 446

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Marked
	[ Nephropathy TGLS = 1-14+15 ]	Nephrosis	Moderate
* Liver		Hepatodiaphragmatic Nodule	
	Hepatocyte	Hypertrophy	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 2-16 ]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland		Cyst	
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Ulcer	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 173

TRT#: 7

DOSE: 1.0 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 595

HISTO: 0400613

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
[ Ulcer TGLS = 3-15 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 174

TRT#: 7

DOSE: 1.0 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 490

HISTO: 0400614

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Papilla	Hyperplasia	Mild
	Renal Tubule	Mineralization	Minimal
	[ Nephropathy TGLS = 1,2-5+14 ]	Nephropathy	Marked
* Liver	Hepatocyte	Nephrosis	Marked
		Hypertrophy	Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Spleen		Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 3-11 ]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 174

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 490

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400614

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 175

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 449

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400615

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-14+15 ]			
* Liver			
Note: No microscopic lesion found to correlate with the gross finding of pale liver			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 514

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400616

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Moderate
		Nephrosis	Moderate
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 435

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400618

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	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary 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	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Marked
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 179

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 569

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400619

**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	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
	[ Nephropathy TGLS = 3-5+14 ]		
* Nose	Olfactory Epi	Degeneration	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Adenoma	
	Note: The nodule identified grossly as a thyroid nodule was examined and interpreted to be a parathyroid neoplasm		
	[ Adenoma TGLS = 4-8 ]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Hyperplasia	Minimal
* Spleen		Atrophy	Marked
	[ Atrophy TGLS = 2-5 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-11 ]		
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 179

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 569

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400619

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 518

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400620

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
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Thyroid Gland
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OBSERVATIONS

* Eye Note: Both optic nerves were missing			
* Harderian Gland Note: One Harderian gland was missing		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney [ Nephropathy TGLS = 3-5+15 ]	Renal Tubule	Nephropathy Nephrosis	Marked Marked
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland [ Angiectasis TGLS = 1-14 ]		Angiectasis	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Marked
* Testes [ Adenoma TGLS = 2-11 ]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 181

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 517

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400621

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
[ Nephropathy TGLS = 2-5+15 ]			
* Liver	Bile Duct	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-14 ]			
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 181

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 517

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400621

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 595

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400622

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
[ Nephropathy TGLS = 1-5 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
[ Ulcer TGLS = 3-14 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 182

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 595

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400622

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 436

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Mild
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 445

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400624

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
[ Ulcer TGLS = 2-15 ]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 185

TRT#: 7

DOSE: 1.0 G/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 513

HISTO: 0400625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	Vein	Thrombosis	Mild
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Minimal
		Necrosis	Minimal
* Lung		Inflammation	Minimal
		Metaplasia	Osseous, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 4-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 185

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 513

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400625

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Atrophy TGLS = 3-3 ]

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**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 501

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400626

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye			
Note: One eye and one optic nerve were missing			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
Note: One Harderian gland was missing			
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Minimal
		Necrosis	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH** - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 501

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400626

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 520

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400627

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
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Mild
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Mild
[ Inflammation TGLS = 5-12 ]			
* Prostate		Atrophy	Mild
[ Atrophy TGLS = 4-13 ]			
* Seminal Vesicle		Atrophy	Mild
[ Atrophy TGLS = 3-13 ]			
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 6-6 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-11 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 187

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 520

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400627

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 572

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400628

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	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Endocardium	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Moderate
[ Nephropathy TGLS = 1-5+14 ]			
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Pancreas	Artery	Thrombosis	Marked
* Parathyroid Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-15 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-11 ]			
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 188

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 572

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400628

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 189

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 467

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400629

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5+14 ]			
* Lung		Metaplasia	Osseous, Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
[ Atrophy TGLS = 1-5 ]			
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 449

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400630

**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
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart	Epicardium	Hyperplasia	Minimal
	Myocardium	Mineralization	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	[ Nephropathy TGLS = 1-5+14 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	
	[ Adenoma TGLS = 2-8 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 449

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400630

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 439

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400631

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
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Moderate
[ Nephropathy TGLS = 1,2-5+14 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 476

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400632

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Moderate
[ Nephropathy TGLS = 1-5 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 466

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Epididymis	* Lymph Node, Mandibular	* Testes
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OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland was missing			
* Adren Medulla			
Note: One adrenal gland was missing			
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5 ]			
* Liver	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
[ Atrophy TGLS = 1-5 ]			
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 3-6 ]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 193

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 466

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400633

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 194

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 586

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400634

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 2-5+14 ]			
* Liver	Hepatocyte	Hypertrophy	Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Mild
[ Atrophy TGLS = 3-5 ]			
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-11 ]			
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 418

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400635

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
	[ Nephropathy TGLS = 1-5+15 ]		
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
	[ Ulcer TGLS = 3-14 ]		
* Testes	Interstit Cell	Hyperplasia	Minimal
	[ Hyperplasia TGLS = 2-11 ]		
* Thymus		Atrophy	Marked
* Thyroid Gland		Inflammation	Granulomatous, Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 195

**TRT#:** 7

**DOSE:** 1.0 G/KG

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:** 418

**HISTO:** 0400635

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 511

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400636

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
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Preputial Gland
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Moderate
[ Nephropathy TGLS = 1,2-5+14 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Marked
		Inflammation	Chronic Active, Moderate
* Spleen		Atrophy	Marked
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 516

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400637

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Nephrosis	Marked
	[ Nephropathy TGLS = 1-5 ]		
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Ulcer	Minimal
* Thymus		Atrophy	Marked
		Thymoma Benign	

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 465

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Epididymis	* Intestine Large, Rectum	* Lymph Node, Mandibular	* Preputial Gland
* Testes	* Urinary Bladder		

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
[ Nephropathy TGLS = 1-5+14 ]			
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Erosion	Moderate
		Inflammation	Chronic Active, Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 199

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 425

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400639

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Nephrosis	Marked
	[ Nephropathy TGLS = 1-5+14 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 200

TRT#: 7

DOSE: 1.0 G/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 478

HISTO: 0400640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Harderian Gland	* Lymph Node, Mandibular	* Parathyroid Gland	* Preputial Gland
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OBSERVATIONS

* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
	[ Nephropathy TGLS = 1-5 ]	Nephrosis	Marked
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-14 ]		
* Nose	Olfactory Epi	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
* Spleen		Atrophy	Marked
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 201

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 3-15 ]		
* Lung		Inflammation	Minimal
		Metaplasia	Osseous, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLS = 1,2-13+14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
	Epithel Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

---

**ANIMAL ID:** 201

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400641

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 202

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 631

HISTO: 0400642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-6+7 ]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Mild
	Duct	Cyst	
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-5 ]		
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Mild
* Urinary Bladder		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 202

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Moribund Sacrifice

**DAY ON TEST:** 631

**HISTO:** 0400642

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 203

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia Inflammation	Mild Chronic, Mild
[ Hyperplasia TGLS = 1-12 ]			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Inflammation Mixed Cell Focus	Chronic, Mild
* Lung	Alveolar Epith	Hyperplasia Inflammation	Minimal Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 3-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
[ Adenoma TGLS = 2-8 ]			
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 203

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400643

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

Follicle

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 204

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
[ Adenoma TGLS = 4-14 ]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[ Basophilic Focus TGLS = 3-6+7+14 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 204

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400644

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Polyp Stromal TGLS = 2-14 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 205

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 346

HISTO: 0400645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Pigmentation	Moderate
Note: The renal deformity noted at necropsy was examined microscopically and found to correspond with a mesentery neoplasm			
* Liver		Basophilic Focus	
Mesentery		Mesothelioma Malignant	
[ Mesothelioma Malignant TGLS = 1,3-5+13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Spleen		Atrophy	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 206

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 688

HISTO: 0400646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-9 ]			
* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
		Necrosis	Minimal
[ Leukemia Mononuclear TGLS = 3-6+7 ]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Erosion	Minimal
		Inflammation	Chronic Active, Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-5 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 206	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 688
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400646

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 207

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 208

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Hyperplasia	Mild
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
	[ Mixed Cell Focus TGLS = 3-14 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Minimal
Lymph Node	Mediastinal	Squamous Cell Carcinoma	Metastatic (Oral Mucosa)
	[ Squamous Cell Carcinoma TGLS = 4-15 ]		
* Mammary Gland		Cyst	
	[ Cyst TGLS = 1-13 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 208	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400648

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Oral Mucosa		Squamous Cell Carcinoma	
Note: The nodule identified grossly as being in a nasal sinus was examined microscopically and diagnosed as a neoplasm of the oral cavity [ Squamous Cell Carcinoma TGLS = 6-17 ]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-16 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 209

TRT#: 2

SEX: Female

DAY ON TEST: 330

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400649

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      | * Kidney                    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Ovary                     |
| * Pancreas               | * Parathyroid Gland        | * Salivary Glands         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                     |               |                                  |                   |
|-------------------------------------|---------------|----------------------------------|-------------------|
| * Adren Cortex                      |               |                                  |                   |
| Note: One adrenal gland was missing |               |                                  |                   |
| * Adren Medulla                     |               |                                  |                   |
| Note: One adrenal gland was missing |               |                                  |                   |
| * Bone Marrow                       |               | Hyperplasia                      | Minimal           |
| * Harderian Gland                   |               | Pigmentation                     | Porphyrin, Mild   |
| * Heart                             |               | Cardiomyopathy                   | Minimal           |
| * Liver                             |               | Inflammation                     | Chronic, Minimal  |
| * Lung                              |               | Inflammation                     | Minimal           |
| * Pituitary Gland                   | Pars Distalis | Adenoma                          |                   |
| * Spleen                            |               | Hematopoietic Cell Proliferation | Mild              |
| * Thymus                            |               | Atrophy                          | Mild              |
| * Uterus                            |               | Inflammation                     | Chronic, Moderate |
|                                     |               | Polyp Stromal                    |                   |

[ Inflammation TGLS = 1-13 ]

PRIMARY CAUSE OF DEATH

- Uterus Polyp Stromal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 210

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Cyst	
		Inflammation	Chronic, Minimal
	[ Cyst TGLS = 7-12 ]		
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
		Regeneration	Mild
	[ Leukemia Mononuclear TGLS = 3,4-6+7 ]		
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-15 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Granulosa Cell Tumor Benign	
	[ Granulosa Cell Tumor Benign TGLS = 8-11 ]		
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 210	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400650

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Adenoma TGLS = 5-8 ]			
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 6-13 ]			
* Uterus		Polyp Stromal	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 211

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 1-13 ]			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 3-14 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
Lymph Node	Deep Cervical	Hyperplasia	Lymphoid, Minimal
[ Hyperplasia TGLS = 4-16 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-15 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 211

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

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

**DAY ON TEST:** 731  
**HISTO:** 0400651

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 212

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 686

HISTO: 0400652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* 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
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Mild
* Clitoral Gland	Bilateral	Adenoma	
[ Adenoma TGLS = 1-13 ]			
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 2-14 ]		Necrosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-15 ]			
* Spleen		Atrophy	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 213

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

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

**DAY ON TEST:** 732  
**HISTO:** 0400653

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Atrophy	Marked
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 3-6+7 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Adenoma TGLS = 4-8 ]			
* Skin		Basal Cell Adenoma	
[ Basal Cell Adenoma TGLS = 1-13 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

---

**ANIMAL ID:** 213

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400653

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Stomach, Glandular

Epithelium

Ectasia

Mild

\* Thymus

Atrophy

Marked

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 214

TRT#: 2

SEX: Female

DAY ON TEST: 656

DOSE: 0 G/KG

DISP: Natural Death

HISTO: 0400654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin	Subcut Tiss	Fibroma	
Note: The mammary gland mass described at necropsy was examined microscopically and diagnosed as a dermal neoplasm [ Fibroma TGLS = 1-13 ]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 215

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

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

**DAY ON TEST:** 731  
**HISTO:** 0400655

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hemangioma	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-8 ]		
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Mild
* Uterus		Polyp Stromal	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 216

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 661

HISTO: 0400656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Ulcer	Moderate
* Kidney	Papilla	Mineralization	Minimal
		Necrosis	Moderate
* Liver		Basophilic Focus	
	Sinusoid	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-8 ]		
* Spleen		Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Mineralization	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Uterus		Dilatation	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 217

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 330

HISTO: 0400657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye			
Note: Both optic nerves were missing			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney	Papilla	Mineralization	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 1-7 ]			
* Lung		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 2-13 ]			
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Fibrosis	Minimal
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-8 ]			
* Spleen		Atrophy	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 217

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 330

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400657

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

- Lung Squamous Cell Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 218

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 3-14 ]			
[ Eosinophilic Focus TGLS = 4-6 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Adenoma TGLS = 5-15 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 218

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400658

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

[ Dilatation TGLS = 2-11 ]

Dilatation

Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 219

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 644

HISTO: 0400659

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
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral GI			
Note: No corresponding microscopic finding for grossly observed clitoral gland nodule			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Moderate
		Inflammation	Chronic, Mild
	[ Degeneration TGLS = 3-6+7 ]		
* Lung		Inflammation	Moderate
	[ Inflammation TGLS = 4-3+4 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary GI			
Note: No corresponding microscopic finding for grossly observed pituitary gland foci (two)			
* Spleen		Hematopoietic Cell Proliferation	Mild
	[ Hematopoietic Cell Proliferation TGLS = 2-5 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 219

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 644

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400659

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Lung Inflammation

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 220

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

\* Clitoral Gland

Adenoma

Note: The mammary gland mass described at necropsy was examined microscopically and diagnosed as a clitoral gland neoplasm

[ Adenoma TGLS = 1-13 ]

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 221

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 291

HISTO: 0400661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney		Nephroblastoma	
	[ Nephroblastoma TGLS = 1-13 ]		
* Liver		Basophilic Focus	
	[ Hepatodiaphragmatic Nodule TGLS = 2-6 ]	Hepatodiaphragmatic Nodule	
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephroblastoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 222

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

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

**DAY ON TEST:** 732  
**HISTO:** 0400662

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Note: No corresponding microscopic lesion found for grossly evident granular appearance of the liver			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	
	Pars Distalis	Hyperplasia	Mild
[ Adenoma TGLS = 1-13 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 223

TRT#: 2

SEX: Female

DAY ON TEST: 560

DOSE: 0 G/KG

DISP: Natural Death

HISTO: 0400663

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
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye			
Note: Both optic nerves were missing			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Congestion	Moderate
[ Congestion TGLS = 1-3+4 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Thymus		Atrophy	Marked
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 224

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 670

HISTO: 0400664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 3-12 ]			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Sinusoid	Congestion	Moderate
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
[ Congestion TGLS = 5-16 ]			
[ Hyperplasia TGLS = 6-6+7 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLS = 1,2-13+14 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 4-15 ]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 224

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:** 670

**HISTO:** 0400664

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 225

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

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

**DAY ON TEST:** 732  
**HISTO:** 0400665

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 2-14 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:16  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 226

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400666

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
	[ Basophilic Focus TGLS = 1-6+7 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[ Hematopoietic Cell Proliferation TGLS = 3-5 ]		
* Stomach, Glandular	Epithelium	Ectasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 226

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400666

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Thymus

Atrophy

Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 227

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Mild
	[ Adenoma TGLS = 2-14 ]		
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 227

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400667

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 228

TRT#: 2

SEX: Female

DAY ON TEST: 606

DOSE: 0 G/KG

DISP: Natural Death

HISTO: 0400668

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Inflammation	Suppurative, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	
* Spleen		Atrophy	Moderate
* Thymus		Atrophy	Marked
* Urinary Bladder		Inflammation	Minimal

Note: The urinary bladder had grossly observed calculi

[ Inflammation TGLS = 1-13 ]

PRIMARY CAUSE OF DEATH

- Urinary Bladder Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 229

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 3-13 ]		
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLS = 1,2-14+15 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	
	[ Adenoma TGLS = 4-8 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 229

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400669

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 708

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia Inflammation	Minimal Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Minimal
* Liver		Basophilic Focus Inflammation	Chronic, Minimal
* Lung		Fibrosarcoma	Metastatic (Skin)
[ Fibrosarcoma TGLS = 3,4,5,6-4+15+16+17 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Chronic Active, Minimal
* Ovary		Cyst	
[ Cyst TGLS = 7-11 ]			
* Pituitary Gland		Cyst	
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLS = 1-13 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:16

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

**Lab:** BAT

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**ANIMAL ID:** 230

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400670

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

---

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:16

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 231

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Cyst	
		Inflammation	Chronic, Minimal
[ Cyst TGLS = 4-12 ]			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 3-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 231

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400671

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Uterus

[ Carcinoma TGLS = 2-14 ]

Carcinoma

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 232

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Eye	Optic Nerve	Atrophy	Moderate
		Cataract	Moderate
	[ Cataract TGLS = 1-10 ]		
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLS = 2,3,4,5-13+14+15+16 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 233

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

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

**DAY ON TEST:** 732  
**HISTO:** 0400673

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 234

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

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

**DAY ON TEST:** 732  
**HISTO:** 0400674

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		[ Adenoma TGLS = 1-8 ]	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 235

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 676

HISTO: 0400675

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Inflammation	Chronic, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Parathyroid Gl			
Note: One parathyroid was missing			
* Pituitary Gland		Angiectasis	Moderate
* Spleen		Atrophy	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gl			
Note: One thyroid was missing			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 236

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

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

**DAY ON TEST:** 730  
**HISTO:** 0400676

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Cyst	
[ Cyst TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 237

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 1-16 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-6+7 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-14 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-6 ]			
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 5-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 237	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400677

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas [ Leukemia Mononuclear TGLS = 3-13 ]		Leukemia Mononuclear	
* Pituitary Gland		Cyst	
* Spleen [ Leukemia Mononuclear TGLS = 2-5 ]		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 486

DOSE: 0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                        |                    |                  |
|-------------------|------------------------|--------------------|------------------|
| * Brain           | Hypothalamus           | Compression        | Moderate         |
|                   |                        | Hydrocephalus      | Moderate         |
| * Harderian Gland |                        | Pigmentation       | Porphyrin, Mild  |
| * Heart           |                        | Cardiomyopathy     | Minimal          |
| * Kidney          | Papilla                | Mineralization     | Minimal          |
|                   |                        | Nephropathy        | Minimal          |
| * Liver           |                        | Basophilic Focus   |                  |
|                   |                        | Eosinophilic Focus |                  |
|                   |                        | Inflammation       | Chronic, Minimal |
| * Lung            |                        | Inflammation       | Minimal          |
| * Nose            | Olfactory Epi          | Degeneration       | Minimal          |
| * Pituitary Gland | Pars Distalis          | Adenoma            |                  |
|                   | [ Adenoma TGLS = 1-8 ] |                    |                  |
| * Thymus          |                        | Atrophy            | Minimal          |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 239

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

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 665  
**HISTO:** 0400679

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
Spinal Cord		Astrocytoma Benign	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Uterus		Polyp Stromal	

[ Polyp Stromal TGLS = 1-17 ]

**PRIMARY CAUSE OF DEATH** - Spinal Cord Astrocytoma Benign

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Eye	Sclera	Metaplasia	Osseous, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Cyst	
	Pars Distalis	Hyperplasia	Mild
[ Adenoma TGLS = 1-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 241

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 619

HISTO: 0400681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-9 ]			
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Minimal
* Liver		Fatty Change	Moderate
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[ Hepatodiaphragmatic Nodule TGLS = 4-14 ]			
[ Leukemia Mononuclear TGLS = 3-6+7 ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-14 ]			
[ Leukemia Mononuclear TGLS = 6-15 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-6 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 241	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 619
	<b>DOSE:</b> 0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400681

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Cyst TGLS = 1-13 ]		Cyst	
* Spleen [ Leukemia Mononuclear TGLS = 2-5 ]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Leukemia Mononuclear	

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 242

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

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

**DAY ON TEST:** 731  
**HISTO:** 0400682

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
[ Adenoma TGLS = 1-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 243

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400683

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 6-6+7 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3,4,5-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 243

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400683

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

C Cell  
Endometrium

Hyperplasia  
Hyperplasia  
Polyp Stromal

Mild  
Cystic, Mild

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[ Polyp Stromal TGLS = 2-11 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 244

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma Inflammation	Chronic, Minimal
[ Adenoma TGLS = 1-13 ]			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia Inflammation	Minimal Chronic, Minimal
[ Hyperplasia TGLS = 3-6+7 ]			
* Lung		Inflammation	Mild
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland		Cyst	
	Pars Intermed	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 2-5 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 244

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400684

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 245

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 497

HISTO: 0400685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression Hydrocephalus	Moderate Moderate
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Kidney	Transit Epithe	Hyperplasia	Minimal
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Inflammation	Chronic, Minimal
Note: No corresponding microscopic finding for small liver noted grossly [ Hepatodiaphragmatic Nodule TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[ Adenoma TGLS = 3-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 246

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Cyst	
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-15 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 246

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400686

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 248

TRT#: 2

DOSE: 0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Cyst	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 1-11 ]			
* Pancreas	Duct	Cyst	
* Pituitary Gland		Angiectasis	Minimal
		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 2-13 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 248

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400688

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 249

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

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

**DAY ON TEST:** 732  
**HISTO:** 0400689

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLS = 1-13 ]		
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Cyst	
		Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
[ Hyperplasia TGLS = 1-12 ]			
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 2-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 250

**TRT#:** 2

**DOSE:** 0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400690

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 251

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[ Hepatocellular Carcinoma TGLS = 3-13 ]		
	[ Leukemia Mononuclear TGLS = 2-6+7 ]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-5 ]		
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 251

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400691

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Polyp Stromal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 252

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400692

**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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe Papilla	Hyperplasia	Minimal
		Mineralization	Minimal
	Renal Tubule	Nephropathy	Minimal
* Liver		Nephrosis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
* Lung		Inflammation	Chronic, Mild
* Mammary Gland		Inflammation	Minimal
		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 252

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400692

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 253

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLS = 1,2-13+14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 3-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 254

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 699

**DOSE:** 0.25 G/KG

**DISP:** Natural Death

**HISTO:** 0400694

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-6+7 ]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Atrophy	Moderate
* Pituitary Gland		Angiectasis	Mild
	[ Angiectasis TGLS = 1-8 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-13 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

- Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 255

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400695

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 2-14 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 1-13 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 256

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 651

HISTO: 0400696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
Note: The cyst identified in the thymus at necropsy was examined microscopically and identified as mediastinal lymph node ectasia [ Ectasia TGLS = 2-3 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	
* Skin		Cyst Epithelial Inclusion	
[ Cyst Epithelial Inclusion TGLS = 1-13 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Skin Cyst Epithelial Inclusion

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 256

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 651

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400696

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1,2-13+14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Thecoma Benign	
* Pituitary Gland		Angiectasis	Mild
		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 257

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400697

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 258

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye			
Note: Both optic nerves were missing			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Papilla	Mineralization	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	
[ Cyst TGLS = 1-11 ]			
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 258

**TRT#:** 4

**DOSE:** 0.25 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731

**HISTO:** 0400698

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Inflammation

Cystic, Minimal

Suppurative, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 259

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400699

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-6+7 ]		
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Minimal
	[ Necrosis TGLS = 2-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 259

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400699

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 260

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400700

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Carcinoma	
		[ Carcinoma TGLS = 1-13 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Duct	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
		[ Adenoma TGLS = 2-14 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 260

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400700

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Glandular

Epithelium

Ectasia

Minimal

\* Thymus

Atrophy

Marked

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 261

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400701

**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	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Papilla	Hyperplasia	Minimal
		Mineralization	Minimal
		Necrosis	Moderate
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 4-15 ]			
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
[ Carcinoma TGLS = 2-14 ]			
[ Fibroadenoma TGLS = 1-13 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 261	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 666
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400701

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Angiectasis	Mild
[ Adenoma TGLS = 5-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Necrosis

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 262

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400702

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic	Mild Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney	Transit Epithe	Hyperplasia Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland [ Fibroadenoma TGLS = 1-13 ]		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH** - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 262

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400702

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 263

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400703

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 263

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400703

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 264

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Moderate
* Harderian Gland		Atrophy	Marked
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLS = 1,2-13+14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
* Uterus		Cyst	
	[ Cyst TGLS = 3-15 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 264

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400704

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 265

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Transit Epithe Pelvis	Hyperplasia Inflammation Nephropathy	Mild Chronic, Mild Minimal
* Liver		Basophilic Focus Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Chronic Active, Minimal
* Ovary		Cyst Granulosa Cell Tumor Malignant	
[ Granulosa Cell Tumor Malignant TGLS = 2-14 ]			
* Pituitary Gland		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Mild

[ Polyp Stromal TGLS = 1-13 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 265

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400705

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 596

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400706

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 Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland			
Note: One clitoral gland was missing			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 3-15 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
* Uterus		Deciduoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 266

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 596

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400706

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Deciduoma Malignant TGLS = 2-14 ]

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PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Uterus Deciduoma Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 476

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Kidney
* 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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400708

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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 269

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400709

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Inflammation Pigmentation	Chronic, Minimal Porphyrin, Mild
* Kidney	Transit Epithe	Hyperplasia Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Inflammation	Chronic, Minimal Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 2-11 ]			
* Pituitary Gland	Pars Distalis	Adenoma Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 269

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400709

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 1-13 ]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 271

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400711

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Minimal
Ear	Pinna	Neural Crest Tumor	
	[ Neural Crest Tumor TGLS = 1-13 ]		
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	[ Hyperplasia TGLS = 4-6+7 ]	Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Cyst	
	[ Cyst TGLS = 2-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 271	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400711

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 3-8 ]

* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 272

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400712

**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	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Moderate
	Pelvis	Inflammation	Chronic, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 272

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400712

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 273

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400713

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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	[ Basophilic Focus TGLS = 4-6+7 ]		
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 3-8 ]		
* Skin		Keratoacanthoma	
	Note: A ventral abdominal mass described at necropsy as a mammary gland mass (TGL #2) was examined microscopically and diagnosed as a dermal neoplasm		
	[ Keratoacanthoma TGLS = 2-14 ]		
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 273

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400713

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 66

DOSE: 0.25 G/KG

DISP: Dosing Accident

HISTO: 0400714

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	Lung	Lymph Node, Mesenteric
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Esophagus		Perforation	
Liver		Hemorrhage	Moderate
		Necrosis	Moderate
[ Necrosis TGLS = 1-13 ]			
Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
Spleen		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 275

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400715

**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	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Uterus		Dilatation	Moderate
[ Dilatation TGLS = 1-13 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 276

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
		[ Leukemia Mononuclear TGLS = 2-6+7 ]	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 1-13 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	
* Spleen		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 3-5 ]	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 276

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400716

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 277

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
	[ Hepatodiaphragmatic Nodule TGLS = 3-14 ]		
	[ Leukemia Mononuclear TGLS = 4-6+7 ]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 5-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Skin	Subcut Tiss	Lipoma	

Note: The mammary gland mass noted at necropsy was examined microscopically and diagnosed as a dermal neoplasm

[ Lipoma TGLS = 1-13 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 277	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400717

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Leukemia Mononuclear TGLS = 2-5 ]		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

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



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 278

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 408

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400718

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Mineralization	Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Sarcoma Stromal	

[ Sarcoma Stromal TGLS = 1-11 ]

**PRIMARY CAUSE OF DEATH**

- Uterus Sarcoma Stromal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 279

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400719

**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, Forestomach	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 280

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400720

**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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Inflammation Pigmentation	Chronic, Minimal Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Pelvis	Hyperplasia Inflammation Inflammation Nephropathy	Mild Chronic, Mild Suppurative, Focal, Minimal Mild
	[ Nephropathy TGLS = 3,4-14 ]		
* Liver		Basophilic Focus Inflammation	Chronic, Mild
* Lung		Inflammation	Minimal
Lymph Node	Deep Cervical	Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLS = 5-14 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-14+15 ]		
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 280	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0.25 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400720

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Angiectasis	Mild
		Cyst	
[ Adenoma TGLS = 7-8 ]			
[ Cyst TGLS = 6-8 ]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Cyst	
[ Cyst TGLS = 3-12 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Pituitary Gl			
Note: No corresponding microscopic finding for grossly observed pituitary gland nodule			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 385

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400722

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
* Kidney	* Liver	* 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

* Eye			
Note: Both optic nerves were missing			
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Fibrosis	Mild
	Myocardium	Inflammation	Chronic, Moderate
	Valve	Inflammation	Chronic, Marked
* Lung		Edema	Moderate
* Pituitary Gland		Angiectasis	Mild
[ Angiectasis TGLS = 2-8 ]			

PRIMARY CAUSE OF DEATH

- Heart Valve Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 283

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400723

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
Ear		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Inflammation	Minimal
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-13 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 283

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400723

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 284

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 697

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400724

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 2-14 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 284

**TRT#:** 4

**DOSE:** 0.25 G/KG

**SEX:** Female

**DISP:** Moribund Sacrifice

**DAY ON TEST:** 697

**HISTO:** 0400724

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 285

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400725

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral GI			
Note: No corresponding microscopic lesion found for small (2 x 1 x 1 mm) red nodule of clitoral gland			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 2-13 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 285

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400725

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Mineralization

Minimal

\* Thyroid Gland

Atrophy

Marked

C Cell

Hyperplasia

Mild

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**PRIMARY CAUSE OF DEATH**

- Mammary Gland Fibroadenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 646

DOSE: 0.25 G/KG

DISP: Natural Death

HISTO: 0400726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
		Angiectasis	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 287

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400727

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLS = 1,2-13+14 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 287

**TRT#:** 4

**DOSE:** 0.25 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731

**HISTO:** 0400727

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 288

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
Note: The inguinal mammary gland mass described at necropsy (TGL #2) was examined microscopically and diagnosed as a clitoral gland neoplasm [ Adenoma TGLS = 2-14 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 3-14 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLS = 1-12,13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 288

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400728

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGLs 4 = NCL (No Corresponding Lesion)

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 197

DOSE: 0.25 G/KG

DISP: Accidentally Killed

HISTO: 0400729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | Ear                        |
| * Esophagus               | * Eye                       | * 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                     | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone
  - Note: No corresponding microscopic finding for grossly observed fracture of cervical vertebra, but this animal was (correctly) classified as accidentally killed
- \* Harderian Gland
  - Pigmentation
  - Porphyrin, Moderate
- \* Heart
  - Cardiomyopathy
  - Minimal
- \* Liver
  - Inflammation
  - Chronic, Minimal
- \* Lung
  - Inflammation
  - Minimal
- \* Pancreas
  - Acinus
  - Atrophy
  - Minimal
- \* Thymus
  - Infiltration Cellular
  - Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400730

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	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
		[ Hepatodiaphragmatic Nodule TGLS = 3,4-13 ]	
		[ Leukemia Mononuclear TGLS = 2-6+7 ]	
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	
* Spleen		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 1-5 ]	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 290

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400730

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 292

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 548

**DOSE:** 0.25 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400732

**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
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 1-8 ]		
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 462

DOSE: 0.25 G/KG

DISP: Moribund Sacrifice

HISTO: 0400733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
		Mineralization	Minimal
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 1-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
		Mineralization	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 295

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400735

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
	[ Eosinophilic Focus TGLS = 2-13 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Fibrosis	Mild
	[ Adenoma TGLS = 3-14 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 295

**TRT#:** 4  
**DOSE:** 0.25 G/KG

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

**DAY ON TEST:** 732  
**HISTO:** 0400735

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLS = 1-8 ]

C Cell

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 296

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* 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
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 2-14 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	
		Fibrosis	Minimal
[ Adenoma TGLS = 3-8 ]			
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 296

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400736

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 1-13 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 3-14 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 298

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400738

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 3-15 ]			
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 4-16 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 298

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.25 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400738

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 0.25 G/KG

DISP: Terminal Sacrifice

HISTO: 0400739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus		Cyst	

[ Cyst TGLS = 1-13 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 300

TRT#: 4

DOSE: 0.25 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 581

HISTO: 0400740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Thyroid Gland
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OBSERVATIONS

* Brain	Leukemia Mononuclear	
* Eye		
Note: One eye was missing		
* Harderian Gland	Pigmentation	Porphyrin, Marked
Note: One Harderian gland was missing		
* Kidney	Leukemia Mononuclear	
* Liver	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-5 ]		
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 592

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Intermed	Adenoma	
		Angiectasis	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 302

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 556

**DOSE:** 0.5 G/KG

**DISP:** Natural Death

**HISTO:** 0400742

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart	Atrium	Thrombosis	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Moderate
[ Degeneration TGLS = 3-6+7 ]			
* Lung		Inflammation	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Infarct TGLS = 1,2-5+13 ]		Infarct	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- Heart Atrium Thrombosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Carcinoma	

[ Carcinoma TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 304

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin	Subcut Tiss	Lipoma	
Note: The mammary gland mass identified at necropsy was examined microscopically and diagnosed as a dermal tumor [ Lipoma TGLS = 1-14 ]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Dilatation	Mild
		Polyp Stromal	

[ Polyp Stromal TGLS = 2-13 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 305

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400745

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
	[ Adenoma TGLS = 1-12 ]		
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Basophilic Focus TGLS = 5-16 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 6-15 ]		
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLS = 2,3-13+14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 305	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400745

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	Multiple
[ Polyp Stromal TGLS = 4-15 ]			

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* 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	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 307

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400747

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Adenoma TGLS = 3-15 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Cyst	
	Endometrium	Hyperplasia	Cystic, Minimal
[ Cyst TGLS = 2-14 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 307

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400747

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 308

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia Inflammation	Moderate Chronic, Mild
[ Hyperplasia TGLS = 4-12 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Cyst	
		Fibroadenoma	Multiple
[ Cyst TGLS = 3-15 ]			
[ Fibroadenoma TGLS = 1,2-13+14 ]			
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 308

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400748

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 661

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Intestine Large, Cecum	* Intestine Small, Ileum	* Lymph Node, Mandibular
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OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Minimal
	[ Nephropathy TGLS = 2-5 ]		
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-13 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 309	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 661
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 0400749

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Ovary			
Note: One ovary was missing			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 3-8 ]			
* Thymus		Atrophy	Moderate

---

PRIMARY CAUSE OF DEATH      - Pituitary Gland Pars Distalis Adenoma

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 310

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400750

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	[ Basophilic Focus TGLS = 2,3-13+14 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Duct	Cyst	
* Pituitary Gland		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

---

**ANIMAL ID:** 310

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400750

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Polyp Stromal

Multiple

Note: Bilateral gross lesion.

[ Polyp Stromal TGLS = 1-13 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 311

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400751

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 2-14 ]			
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Urinary Bladder		Inflammation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

---

**ANIMAL ID:** 311

**TRT#:** 6

**DOSE:** 0.5 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400751

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 312

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400752

**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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
	Pars Distalis	Hyperplasia	Minimal
	[ Adenoma TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 313

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400753

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Mild
	[ Adenoma TGLS = 1-12 ]		
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 313

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400753

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-11 ]

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

**ANIMAL ID:** 314

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 342

**DOSE:** 0.5 G/KG

**DISP:** Natural Death

**HISTO:** 0400754

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Spleen	Atrophy	Moderate
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**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 315

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Atrophy	Mild
		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Fibrosis	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
* Skin		Basal Cell Carcinoma	
	[ Basal Cell Carcinoma TGLS = 1-13 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

---

**ANIMAL ID:** 315

**TRT#:** 6

**DOSE:** 0.5 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400755

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

C Cell

Cyst

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 316

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400756

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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, Forestomach
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Inflammation	Chronic, Mild
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
	[ Hepatodiaphragmatic Nodule TGLS = 3-13 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
		Necrosis	Mild
	Mesentery		
	Fat		
	[ Necrosis TGLS = 1-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

---

**ANIMAL ID:** 316

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400756

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 2-11 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 317

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400757

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Brain	Meninges	Inflammation	Chronic, Minimal
* Clitoral Gland		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	
* Skin	Subcut Tiss	Lipoma	
Note: The mammary gland mass described at necropsy was examined microscopically and diagnosed as a dermal neoplasm			
[ Lipoma TGLS = 1-13 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

---

**ANIMAL ID:** 317

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400757

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 318

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 707

HISTO: 0400758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland	Pigmentation	Porphyrin, Marked
* Liver	Leukemia Mononuclear	
Note: No corresponding lesion found for hepatic cyst described at necropsy.		
* Lung	Leukemia Mononuclear	
* Mammary Gland	Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]		
* Spleen	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-5 ]		
* Thymus	Atrophy	Marked
* Uterus	Polyp Stromal	
[ Polyp Stromal TGLS = 3-11 ]		

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 319

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-8 ]		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 319

**TRT#:** 6

**DOSE:** 0.5 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731

**HISTO:** 0400759

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 320

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 637

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400760

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Necrosis	Mild
		Vacuolization Cytoplasmic	Moderate
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 1-13 ]			
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Centrilobular	Degeneration	Mild
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[ Degeneration TGLS = 3-6+7 ]			
[ Hepatodiaphragmatic Nodule TGLS = 2-14 ]			
* Lung		Carcinoma	Metastatic (Clitoral Gland)
		Inflammation	Mild
[ Carcinoma TGLS = 4-3+4 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 320	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 637
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400760

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH - Clitoral Gland Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 321

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 596

HISTO: 0400761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Marked
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		[ Adenoma TGLS = 1-8 ]	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 322

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400762

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain	Hypothalamus	Compression	Mild
		Hydrocephalus	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 1-8 ]		
* Spleen		Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 322

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400762

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	
[ Adenoma TGLS = 2-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 323

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400763

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Polyp Stromal

[ Polyp Stromal TGLS = 1-11 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 324

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400764

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	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
	[ Basophilic Focus TGLS = 3-6+7 ]		
* Lung		Schwannoma Malignant	Metastatic (Skin)
	[ Schwannoma Malignant TGLS = 7,8-3+4+17 ]		
Lymph Node	Mediastinal	Schwannoma Malignant	Metastatic (Skin)
	[ Schwannoma Malignant TGLS = 6-16 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 5-13 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 1-16 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin	Subcut Tiss	Schwannoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 324	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400764

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Schwannoma Malignant TGLS = 4-14+15 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-16 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 325

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 618

HISTO: 0400765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
	Centrilobular	Necrosis	Moderate
	[ Necrosis TGLS = 3-13 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
	[ Cyst TGLS = 2-14 ]		
* Pancreas	Duct	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 325	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 618
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400765

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Minimal

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[ Polyp Stromal TGLS = 1-15 ]

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

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 326

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 687

HISTO: 0400766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 3-15 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
		Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 326

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 687

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400766

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Polyp Stromal

Note: The vaginal prolapse described at necropsy was examined microscopically and diagnosed as a uterine neoplasm

[ Polyp Stromal TGLS = 1,2-13+14 ]

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PRIMARY CAUSE OF DEATH

- Uterus Polyp Stromal

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 327

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400767

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Nephrosis	Mild
* Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	[ Basophilic Focus TGLS = 1,2-13+14 ]		
* Lung		Inflammation	Minimal
* Mammary Gland		Cyst	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 3-8 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 327

**TRT#:** 6

**DOSE:** 0.5 G/KG

**SEX:** Female

**DISP:** Moribund Sacrifice

**DAY ON TEST:** 716

**HISTO:** 0400767

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Stomach, Glandular

Epithelium

Ectasia

Mild

\* Thymus

Atrophy

Moderate

\* Thyroid Gland

C Cell

Adenoma

Follicle

Hyperplasia

Minimal

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 328

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400768

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	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 3-14 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Skin	Subcut Tiss	Lipoma	
[ Lipoma TGLS = 1-13 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-11 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 329

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 623

**DOSE:** 0.5 G/KG

**DISP:** Natural Death

**HISTO:** 0400769

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain	Hypothalamus	Compression	Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Thymus		Atrophy	Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 330

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* 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	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 1-13 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		[ Adenoma TGLS = 2-8 ]	
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 330

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400770

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 620

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 283

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-3 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
	[ Cyst TGLS = 2-11 ]		
* Salivary Glands		Myoepithelioma	
	[ Myoepithelioma TGLS = 1-13 ]		
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- Salivary Glands Myoepithelioma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 333

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 371

HISTO: 0400773

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
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Marked
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
		Necrosis	Mild
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-13 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-6 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 334

**TRT#:** 6  
**DOSE:** 0.5 G/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 505  
**HISTO:** 0400774

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Atrophy	Mild
		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Spleen		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 2-14 ]	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild
* Uterus		Polyp Stromal	
		[ Polyp Stromal TGLS = 1-13 ]	

**PRIMARY CAUSE OF DEATH** - Uterus Polyp Stromal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 334

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 505

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400774

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 335

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400775

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Eye		Cataract	Moderate
[ Cataract TGLS = 1-10 ]			
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Kidney	Renal Tubule	Cyst	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 3,4-6+7+13 ]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 335

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400775

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Marked

\* Uterus

Bilateral

Polyp Stromal

[ Polyp Stromal TGLS = 2-11 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 336

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400776

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Minimal
		Cyst	
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Dilatation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 336

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400776

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 337

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 701

HISTO: 0400777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* 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	* Skin
* Stomach, Forestomach	Tongue	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Necrosis	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Moderate
	[ Necrosis TGLS = 4-6+7 ]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLS = 1,2-14+15 ]		
* Nose	Olfactory Epi	Degeneration	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 337	<b>TRT#:</b> 6 <b>DOSE:</b> 0.5 G/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 701 <b>HISTO:</b> 0400777
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland		Cyst	
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Marked
		Leukemia Mononuclear	
[ Hematopoietic Cell Proliferation TGLS = 3-13 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Necrosis;Liver Centrilobular Necrosis

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 339

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400779

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-14 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 2-11 ]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	
* Skin	Subcut Tiss	Fibroma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 339

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400779

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: The mammary gland mass described at necropsy was examined microscopically and found to be a dermal neoplasm

[ Fibroma TGLS = 1-13 ]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 399

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Large, Colon
- \* Lymph Node, Mesenteric
- \* Skin

- \* Adrenal Medulla
- \* Brain
- \* Intestine Large, Rectum
- \* Mammary Gland
- \* Spleen

- Blood Vessel
- \* Clitoral Gland
- \* Intestine Small, Ileum
- \* Ovary
- \* Urinary Bladder

- \* Bone
- \* Intestine Large, Cecum
- \* Kidney
- \* Pituitary Gland
- \* Uterus

MISSING

- \* Esophagus
- \* Intestine Small, Duodenum
- \* Lung
- \* Salivary Glands
- \* Thyroid Gland

- \* Eye
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Stomach, Forestomach
- \* Trachea

- \* Harderian Gland
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Glandular

- \* Heart
- \* Liver
- \* Parathyroid Gland
- \* Thymus

OBSERVATIONS

\* Adren Cortex  
Note: One adrenal gland was missing

\* Kidney  
Note: One kidney was missing

\* Nose                                      Olfactory Epi                                      Degeneration                                      Mild

PRIMARY CAUSE OF DEATH                      - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 341

TRT#: 6

DOSE: 0.5 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[ Hepatodiaphragmatic Nodule TGLS = 3,4-13+14 ]			
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
Skeletal Muscle		Inflammation	Suppurative, Minimal
* Skin	Subcut Tiss	Mast Cell Tumor Malignant	
Note: The Mammary mass described at tissue trim was examined microscopically and diagnosed as a skin neoplasm.			
[ Mast Cell Tumor Malignant TGLS = 5-13 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 341	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0.5 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400781

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Cyst Hyperplasia Polyp Stromal	Cystic, Minimal

[ Cyst TGLS = 2-15 ]  
[ Polyp Stromal TGLS = 1-14 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Cyst	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0.5 G/KG

DISP: Terminal Sacrifice

HISTO: 0400783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mineralization	Minimal
	[ Basophilic Focus TGLS = 1-13 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 343

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400783

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 666

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Duct	Cyst	
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Atrophy	Moderate
[ Atrophy TGLS = 2-5 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Carcinoma	
[ Carcinoma TGLS = 1-13 ]			

PRIMARY CAUSE OF DEATH

- Urinary Bladder Transit Epithe Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 345

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 0.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400785

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH** - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 595

DOSE: 0.5 G/KG

DISP: Natural Death

HISTO: 0400786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression Hydrocephalus	Marked Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 2-13 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLS = 1-8 ]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 347

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400787

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Hyperplasia	Minimal
		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 1-13 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 348

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400788

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLS = 2,3-13+14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
	[ Cyst TGLS = 4-11 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 1-8 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:17

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

**Lab:** BAT

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**ANIMAL ID:** 348

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400788

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 366

DOSE: 0.5 G/KG

DISP: Moribund Sacrifice

HISTO: 0400789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
[ Angiectasis TGLS = 2-8 ]			
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Necrosis	Moderate
		Polyp Stromal	
[ Necrosis TGLS = 1-13 ]			

PRIMARY CAUSE OF DEATH

- Uterus Necrosis

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 352

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400792

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Esophagus	* Eye	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
[ Leukemia Mononuclear TGLS = 2-13 ]			
* Liver		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-13 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 353

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400793

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-13 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 354

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400794

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Mammary Gland		Cyst	
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-13 ]			
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 1-13 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 354	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 1.0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400794

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:17

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 355

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400795

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	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
		Ulcer	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 356

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 225

HISTO: 0400796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-9+13 ]			
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-5 ]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 357

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400797

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Moderate
* Liver		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		[ Adenoma TGLS = 1-8 ]	
* Stomach, Glandular	Epithelium	Ectasia	Mild
		Mineralization	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 357

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400797

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 358

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 560

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400798

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Lymphoma Malignant	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
	[ Nephropathy TGLS = 2-5 ]		
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Inflammation	Chronic, Minimal
	[ Eosinophilic Focus TGLS = 1-13 ]		
* Lung		Inflammation	Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland		Cyst	
* Salivary Glands		Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 358	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 560
	<b>DOSE:</b> 1.0 G/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 0400798

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
		Lymphoma Malignant	
* Thymus		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Uterus		Lymphoma Malignant	

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PRIMARY CAUSE OF DEATH	- UNCERTAIN
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 359

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* 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	* Salivary Glands	* Skin	* Trachea

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Eye		Leukemia Mononuclear	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-5+14 ]		
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-15 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 7-16 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
		Leukemia Mononuclear	
* Ovary		Cyst	
		Leukemia Mononuclear	
	[ Cyst TGLS = 3-11 ]		
* Pituitary Gland		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-8 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-13 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 359	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 1.0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400799

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Leukemia Mononuclear	
		Polyp Stromal	

[ Polyp Stromal TGLS = 2-11 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 360

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Marked
[ Hyperplasia TGLS = 1-12 ]			
* Eye		Degeneration	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 361

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400801

**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	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-6+7 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Minimal
	[ Angiectasis TGLS = 3-8 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-13 ]		
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 361

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400801

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 64

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400802

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

\* Eye

Note: Both optic nerves were missing

\* Harderian Gland

Pigmentation

Porphyrin, Minimal

\* Nose

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Mild
* Harderian Gland		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Eosinophilic Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 364

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 435

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400804

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Mesentery	Fat	Necrosis	Mild
Note: The gross observation identified as a pancreatic mass was examined microscopically and diagnosed as mesenteric fat necrosis [ Necrosis TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 365

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* 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
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Optic Nerve	Atrophy	Moderate
	Retina	Atrophy	Moderate
		Cataract	Moderate
[ Cataract TGLS = 2-10 ]			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Mild
Lymph Node	Deep Cervical	Infiltration Cellular	Histiocyte, Mild
	Deep Cervical	Pigmentation	Mild
[ Infiltration Cellular TGLS = 4-15 ]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Hemosiderin, Mild

Note: The nodule described grossly as being in the mesentery was examined microscopically and diagnosed as an infiltrated mesenteric lymph node

[ Infiltration Cellular TGLS = 1-14 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 365	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 1.0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400805

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
[ Adenoma TGLS = 5-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Adenoma	
	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Minimal
[ Polyp Stromal TGLS = 3-11+13 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 366

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 367

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 678

HISTO: 0400807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Eye	* 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	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5,6-9 ]			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-14 ]			
[ Leukemia Mononuclear TGLS = 3-15 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-16 ]			
* Nose	Olfactory Epi	Degeneration	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 367

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 678

**DOSE:** 1.0 G/KG

**DISP:** Natural Death

**HISTO:** 0400807

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Leukemia Mononuclear TGLS = 1-13 ]		Leukemia Mononuclear	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 368

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400808

**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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
	[ Eosinophilic Focus TGLS = 4-14 ]		
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 3-15 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-8 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 368

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400808

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 369

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* 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	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain	Meninges	Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 1-13 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Granulosa Cell Tumor Malignant	
		[ Granulosa Cell Tumor Malignant TGLS = 3-11 ]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 369

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400809

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Sarcoma Stromal	
[ Sarcoma Stromal TGLS = 2-11 ]			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum	Epithelium	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Mild
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 588

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-13 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 3-14 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 2-8 ]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 372

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 703

HISTO: 0400812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
		Hydrocephalus	Mild
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[ Adenoma TGLS = 1-8 ]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 373

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
	[ Eosinophilic Focus TGLS = 1,2-6+7 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Minimal
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
[ Eosinophilic Focus TGLS = 2-6+7+13 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-8 ]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 491

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400816

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      |
| * Mammary Gland             | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                          |                                       |                      |                 |
|--------------------------|---------------------------------------|----------------------|-----------------|
| * Harderian Gland        |                                       | Pigmentation         | Porphyrin, Mild |
| * Heart                  |                                       | Cardiomyopathy       | Minimal         |
| * Kidney                 | Renal Tubule                          | Nephrosis            | Minimal         |
| * Liver                  |                                       | Leukemia Mononuclear |                 |
|                          | [ Leukemia Mononuclear TGLS = 2-6+7 ] |                      |                 |
| * Lung                   |                                       | Leukemia Mononuclear |                 |
|                          | [ Leukemia Mononuclear TGLS = 3-3+4 ] |                      |                 |
| * Lymph Node, Mesenteric |                                       | Leukemia Mononuclear |                 |
| * Nose                   | Olfactory Epi                         | Degeneration         | Minimal         |
| * Spleen                 |                                       | Leukemia Mononuclear |                 |
|                          | [ Leukemia Mononuclear TGLS = 1-13 ]  |                      |                 |
| * Thymus                 |                                       | Atrophy              | Mild            |

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 683

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400817

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, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Ulcer	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
		[ Hyperplasia TGLS = 3-13 ]	
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 2-14 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 377

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 683

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400817

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Zymbal's Gland

Carcinoma

[ Carcinoma TGLS = 1-13 ]

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PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400818

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral GI			
Note: No microscopic finding correlated with the unilateral nodule (3 x 3 x 2 mm) noted by the tissue trimmer			
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	
	Pars Distalis	Hyperplasia	Moderate
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 378

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400818

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 1-11 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 716

DOSE: 1.0 G/KG

DISP: Moribund Sacrifice

HISTO: 0400819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Metaplasia	Osseous, Minimal
* Kidney	Renal Tubule	Nephropathy	Minimal
* Liver	Centrilobular	Nephrosis	Minimal
* Lung		Basophilic Focus	
* Nose	Olfactory Epi	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
* Stomach, Forestomach		Inflammation	Minimal
* Stomach, Glandular	Epithelium	Leukemia Mononuclear	
* Thymus	Epithelium	Degeneration	Minimal
* Thyroid Gland	C Cell	Inflammation	Chronic Active, Minimal
		Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Ectasia	Minimal
		Hyperplasia	Minimal
		Atrophy	Moderate
		Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 380

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 0400820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Focal, Minimal
	Renal Tubule	Nephropathy	Moderate
	[ Nephropathy TGLS = 3-5+15 ]	Nephrosis	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1,2-13+14 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Duct	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 380

**TRT#:** 8

**DOSE:** 1.0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732

**HISTO:** 0400820

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 381	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 49
	<b>DOSE:</b> 1.0 G/KG	<b>DISP:</b> Dosing Accident	<b>HISTO:</b> 0400821

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

Lymph Node, Mandibular

---

**OBSERVATIONS**

Clitoral Gland		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Nose	Olfactory Epi	Degeneration	Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
		Necrosis	Minimal
	[ Eosinophilic Focus TGLS = 2-6+7 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Duct	Cyst	
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 382

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400822

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Glandular

Epithelium

Leukemia Mononuclear

Mild

\* Thymus

Ectasia

Moderate

Atrophy

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 9

DOSE: 1.0 G/KG

DISP: Natural Death

HISTO: 0400823

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Mild
* Esophagus	Muscularis	Inflammation	Chronic, Mild
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 385

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400825

**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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-6+7 ]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Minimal
* Parathyroid Gland		Cyst	Mild
* Pituitary Gland		Cyst	
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-5 ]		
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Follicle	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
		Metaplasia	Osseous, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 386

**TRT#:** 8

**DOSE:** 1.0 G/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730

**HISTO:** 0400826

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 387

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400827

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Mild
		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Duodenum		Leiomyosarcoma	
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Duct	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Uterus		Angiectasis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 387

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400827

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Polyp Stromal

[ Polyp Stromal TGLS = 1-13 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 388

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400828

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 Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Mild
* Liver		Nephrosis	Minimal
[ Eosinophilic Focus TGLS = 1-6+7 ]		Eosinophilic Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 389

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 708

HISTO: 0400829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* 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	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Minimal
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Hepatodiaphragmatic Nodule TGLS = 4-13 ]		
	[ Leukemia Mononuclear TGLS = 3-6+7+13 ]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-6 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	[ Cyst TGLS = 1-8 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-5 ]		
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 389

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400829

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Marked

\* Thyroid Gland

C Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                      |                |                  |                  |
|----------------------|----------------|------------------|------------------|
| * Harderian Gland    |                | Pigmentation     | Porphyrin, Mild  |
| * Kidney             | Transit Epithe | Hyperplasia      | Minimal          |
|                      |                | Nephropathy      | Mild             |
|                      | Renal Tubule   | Nephrosis        | Minimal          |
| * Liver              |                | Basophilic Focus |                  |
|                      |                | Inflammation     | Chronic, Minimal |
| * Lung               |                | Inflammation     | Minimal          |
| * Nose               | Olfactory Epi  | Degeneration     | Minimal          |
| * Stomach, Glandular | Epithelium     | Ectasia          | Minimal          |
| * Thymus             |                | Atrophy          | Marked           |
| * Thyroid Gland      | C Cell         | Hyperplasia      | Minimal          |
| * Uterus             | Endometrium    | Hyperplasia      | Cystic, Minimal  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 391

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 663

HISTO: 0400831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
	[ Adenoma TGLS = 1-13 ]		
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-14 ]		
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 393

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400833

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Mild
		Nephrosis	Mild
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-6+7 ]		
* Lung		Inflammation	Minimal
		Leukemia Mononuclear	
	Lymph Node	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[ Adenoma TGLS = 3-8 ]		
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 393

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400833

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Stomach, Glandular

Epithelium

Ectasia

Mild

\* Thymus

Atrophy

Marked

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain	Meninges	Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
		[ Eosinophilic Focus TGLS = 3-15 ]	
		[ Hepatocellular Adenoma TGLS = 1-13 ]	
		[ Hepatodiaphragmatic Nodule TGLS = 2-14 ]	
* Lung		Inflammation	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Glandular	Epithelium	Ectasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03

**Test Type:** CHRONIC

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** beta-Myrcene

**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 05:28:18

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

**Lab:** BAT

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**ANIMAL ID:** 394

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 1.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:** 0400834

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Marked

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Mild
* Uterus		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 396

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 0400836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 396	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 1.0 G/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 0400836

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Mild
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[ Polyp Stromal TGLS = 1-11 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 G/KG

DISP: Terminal Sacrifice

HISTO: 0400837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Mammary Gland		Cyst	
[ Cyst TGLS = 1-13 ]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[ Adenoma TGLS = 2-8 ]			
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 398

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 578

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400838

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Nephrosis	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Minimal
* Mammary Gland		Fibroadenoma	
		[ Fibroadenoma TGLS = 1-13 ]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
		[ Cyst TGLS = 2-14 ]	
* Pancreas	Duct	Cyst	
* Stomach, Glandular	Epithelium	Ectasia	Minimal
* Thymus		Atrophy	Moderate

**PRIMARY CAUSE OF DEATH** - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 399

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 0400839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Harderian Gland		Pigmentation	Porphyrin, Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Nephrosis	Minimal
* Liver	Bile Duct	Cyst	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-14 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Minimal
		Metaplasia	Osseous, Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-13 ]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99023-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/16/2014

Time Report Requested: 05:28:18

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 400

TRT#: 8

DOSE: 1.0 G/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 672

HISTO: 0400840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex [ Vacuolization Cytoplasmic TGLS = 4-8 ]		Vacuolization Cytoplasmic	Moderate
* Harderian Gland		Pigmentation	Porphyrin, Marked
* Int Lg Rectum Note: No microscopic lesion found to correspond to gross finding of rectal prolapse			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Nephrosis	Mild
* Liver		Eosinophilic Focus	
		Mixed Cell Focus	
* Lung		Inflammation	Minimal
* Mammary Gland [ Fibroadenoma TGLS = 1-13 ]		Fibroadenoma	
Mesentery [ Necrosis TGLS = 3-14 ]	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland [ Adenoma TGLS = 6-8 ]	Pars Distalis	Adenoma	Multiple
* Stomach, Glandular	Epithelium	Ectasia	Mild
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99023-03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:28:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 400

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 672

**DOSE:** 1.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:** 0400840

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Zymbal's Gland

Carcinoma

[ Carcinoma TGLS = 5-14 ]

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PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

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

\* PROTOCOL REQUIRED TISSUE