

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

C Number:	C99023
Lock Date:	10/17/2001
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Male
0 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule					X						1
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Acinus, Atrophy			1								1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1		1	1			1	1			5 1.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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Lab: BAT

**F 344/N Rat Male
0 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

***TOTALS**

Hyperplasia, Focal					1	1					2	1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
General Body System												
NONE												
Genital System												
Epididymis	+	+	+	+	+	+	+	+	+	+	10	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10	
Prostate	+	+	+	+	+	+	+	+	+	+	10	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic System												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node		+									1	
Deep Cervical, Ectasia			2								1	2.0
Deep Cervical, Hyperplasia, Lymphoid			3								1	3.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	

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+ ..Tissue examined microscopically

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Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Male
0 G/KG**

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	3	3	3	3	3	3	3	3	3	3	*TOTALS
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	1	1	1			1			1		5 1.0
Metaplasia, Osseous									1		1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
Special Senses System											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Pigmentation, Porphyrin										1	1 1.0

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Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Urinary System

Kidney	+	+	+	+			+	+	+	7
Nephropathy	1	1	1	1			1	1	1	7 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	10

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Test Type: 90-DAY

Test Compound: beta-Myrcene

Time Report Requested: 12:49:23

Species/Strain: Rat/F 344/N

CAS Number: 123-35-3

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Male
0.25 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node											+	+	2								
Deep Cervical, Ectasia											3	3	2	3.0							
Deep Cervical, Hyperplasia, Lymphoid											2	2	2	2.0							
Spleen											+	+	+	+	+	+	+	+	+	+	10

Integumentary System

NONE

Musculoskeletal System

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Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0.25 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

NONE											
Nervous System											
NONE											
Respiratory System											
Nose	+	+	+	+	+	+	+	+	+	+	10
Special Senses System											
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Pigmentation, Porphyrin	1						1			1	3 1.0
Urinary System											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	1	1	1	1	1	1	1	1	1	1	10 1.0
Renal Tubule, Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	10 2.0
Renal Tubule, Degeneration	1	1	1	1	1	1	1	1	1	1	10 1.0

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CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0.5 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	3	9	9	9	9	9	9	9
	3	3	2	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	1	0
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Alimentary System

Esophagus		+								1	
Perforation			4								1 4.0
Intestine Large, Cecum		+								1	
Intestine Large, Colon		+								1	
Intestine Large, Rectum		+								1	
Intestine Small, Duodenum		+								1	
Intestine Small, Ileum		+								1	
Intestine Small, Jejunum		+								1	
Liver		+						+		2	
Hepatodiaphragmatic Nodule								X			1
Pancreas		+								1	
Salivary Glands		+								1	
Stomach, Forestomach		+								1	
Stomach, Glandular		+								1	

Cardiovascular System

Blood Vessel		+								1	
Heart		+								1	

Endocrine System

Adrenal Cortex		+								1	
Adrenal Medulla		+								1	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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1) Minimal 3) Moderate

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Test Compound: beta-Myrcene

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Species/Strain: Rat/F 344/N

CAS Number: 123-35-3

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0.5 G/KG

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	3	9	9	9	9	9	9	9	
	3	3	2	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	*TOTALS
Islets, Pancreatic				+							1
Parathyroid Gland				+							1
Pituitary Gland				+							1
Thyroid Gland				+							1
General Body System											
NONE											
Genital System											
Epididymis				+							1
Preputial Gland				+							1
Prostate				+							1
Seminal Vesicle				+							1
Testes				+							1
Hematopoietic System											
Bone Marrow				+							1
Lymph Node		+		+			+	+			4
Deep Cervical, Ectasia		2		1			1	2			4 1.5
Deep Cervical, Hyperplasia, Lymphoid		4		3			2	2			4 2.8
Lymph Node, Mandibular				M							0
Lymph Node, Mesenteric				+							1
Spleen		+	+	+	+	+	+	+	+	+	10
Atrophy				2							1 2.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically M ..Missing tissue 1-4 ..Lesion qualified as:
X ..Lesion present A ..Autolysis precludes evaluation 1) Minimal 3) Moderate
I ..Insufficient tissue BLANK ..Not examined microscopically 2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

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CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Male
0.5 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	3	9	9	9	9	9	9	9
	3	3	2	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

***TOTALS**

Thymus											+		1										
Integumentary System																							
Mammary Gland											+		1										
Skin											+		1										
Musculoskeletal System																							
Bone											+		1										
Skeletal Muscle											+		1										
Nervous System																							
Brain											+		1										
Respiratory System																							
Lung											+		1										
Nose											+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic												1									1	1.0	
Trachea											+		1										
Special Senses System																							
Eye											+		1										
Harderian Gland											+	+	+	+	+	+	+	+	+	+	10		
Pigmentation, Porphyrin													1		1	1	1	1	1	1		7	1.0
Urinary System																							

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0.5 G/KG

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	3	9	9	9	9	9	9	9		
	3	3	2	3	3	3	3	3	3	3		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	3		
	0	0	0	0	0	0	0	0	0	1		
	1	2	3	4	5	6	7	8	9	0	*TOTALS	
Kidney	+	+	A	+	+	+	+	+	+	+	9	
Nephropathy	1	1		1	1	2	1	2	2	1	9	1.3
Nephrosis					1						1	1.0
Renal Tubule, Accumulation, Hyaline Droplet	3	2		3	2	2	3	2	2	3	9	2.4
Renal Tubule, Degeneration	1	1		2	1	1	1	1	1	1	9	1.1
Urinary Bladder			+								1	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
1.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	2	9	9	9	9	9	9	9
	3	3	6	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus											+	1
Intestine Large, Cecum											+	1
Intestine Large, Colon											+	1
Intestine Large, Rectum											+	1
Intestine Small, Duodenum											+	1
Intestine Small, Ileum											+	1
Intestine Small, Jejunum											+	1
Liver											+	1
Pancreas											+	1
Salivary Glands											+	1
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular											+	1

Cardiovascular System

Blood Vessel											+	1
Heart											+	1

Endocrine System

Adrenal Cortex											+	1
Adrenal Medulla											+	1
Islets, Pancreatic											+	1
Parathyroid Gland											+	1

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
1.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	2	9	9	9	9	9	9	9
	3	3	6	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Pituitary Gland											+		1								
Thyroid Gland											+		1								
General Body System																					
NONE																					
Genital System																					
Epididymis											+		1								
Preputial Gland											+		1								
Prostate											+		1								
Seminal Vesicle											+		1								
Testes											+		1								
Hematopoietic System																					
Bone Marrow											+		1								
Lymph Node												+	1								
Deep Cervical, Ectasia													2	1	2.0						
Deep Cervical, Hyperplasia, Lymphoid													3	1	3.0						
Lymph Node, Mandibular											+			1							
Lymph Node, Mesenteric											+			1							
Atrophy												1		1	1.0						
Spleen											+	+	+	+	+	+	+	+	+	+	10
Thymus											+	+	+	+	+	+	+	+	+	+	10
Integumentary System																					

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:23

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
1.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	2	9	9	9	9	9	9	9	
	3	3	6	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Integumentary System

Mammary Gland											+	1
Skin											+	1

Musculoskeletal System

Bone											+	1
------	--	--	--	--	--	--	--	--	--	--	---	---

Nervous System

Brain											+	1
-------	--	--	--	--	--	--	--	--	--	--	---	---

Respiratory System

Lung											+	1										
Congestion											2	1	2.0									
Nose											+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic											1	1					1	1	1	1	6	1.0
Inflammation, Suppurative																				1	1	1.0
Olfactory Epi, Degeneration														1						1	2	1.0
Trachea											+	1										

Special Senses System

Eye											+	1										
Harderian Gland											+	+	+	+	+	+	+	+	+	+	10	
Pigmentation, Porphyrin													2	1	1	1	1	1	1	1	8	1.1

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
1.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	2	9	9	9	9	9	9	9	
	3	3	6	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Nephropathy	1			1	1	1	1	1	1	1	8	1.0
Nephrosis	1	1	1	1	1	1	1	1	1	1	10	1.0
Renal Tubule, Accumulation, Hyaline Droplet	2	2	1	2	2	3	2	2	3	2	10	2.1
Urinary Bladder			+								1	

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
2.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	1	9	0
	3	3	3	3	3	3	3	8	3	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Atrophy						2	2				2 2.0
Liver	+	+	+	+	+	+	+	+	+	+	10
Fibrosis, Focal				1							1 1.0
Inflammation, Chronic				1							1 1.0
Oral Mucosa				+	+						2
Inflammation, Chronic				2							1 2.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Acinus, Atrophy							1				1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Acute									1		1 1.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
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* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Male
2.0 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	1	9	0
	3	3	3	3	3	3	3	8	3	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Heart	+	+	+	+	+	+	+	+	+	+	10
Endocrine System											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage								2			1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
General Body System											
NONE											
Genital System											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Degeneration										4	1 4.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Atrophy										4	1 4.0
Testes	+	+	+	+	+	+	+	+	+	+	10
Germinal Epith, Degeneration										2	1 2.0
Hematopoietic System											

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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BLANK ..Not examined microscopically

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2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
2.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	1	9	0	
	3	3	3	3	3	3	3	8	3	4	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	
Atrophy	1			3	2		1	1		2	6	1.7
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Atrophy	1	2	2	1	2	2	2	1	1	4	10	1.8
Thymus	+	+	+	M	+	+	+	+	+	+	9	
Necrosis										3	1	3.0

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10	
Skin	+	+	+	+	+	+	+	+	+	+	10	

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10	
------	---	---	---	---	---	---	---	---	---	---	----	--

Nervous System

Brain	+	+	+	+	+	+	+	+	+	+	10	
-------	---	---	---	---	---	---	---	---	---	---	----	--

Respiratory System

Lung	+	+	+	+	+	+	+	+	+	+	10	
Bronchus, Infiltration Cellular, Polymorphnuclr			2								1	2.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/19/2014

Test Type: 90-DAY

Test Compound: beta-Myrcene

Time Report Requested: 12:49:24

Species/Strain: Rat/F 344/N

CAS Number: 123-35-3

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male 2.0 G/KG	DAY ON TEST										*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	1	9	0	
	3	3	3	3	3	3	3	8	3	4	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	
Inflammation, Chronic	2					1			1		
Inflammation, Suppurative				3							
Nose	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic	1	1	1	2	1	1	1		1		
Inflammation, Suppurative			1	1	1						
Olfactory Epi, Degeneration	3	3	3	3	1	3	3		2		
Trachea	+	+	+	+	+	+	+	+	+	+	
Special Senses System											
Eye	+	+	+	+	+	+	+	+	+	+	
Antr Chamber, Cornea, Inflammation, Suppurative									3		
Harderian Gland	+	+	+	+	+	M	+	+	+	+	
Pigmentation, Porphyrin	1	1	1	1	1		1	1	1	4	
Lacrimal Gland								+			
Zymbal's Gland					+						
Urinary System											
Kidney	+	+	+	+	+	+	+	+	+	+	
Nephropathy	2	2	2	2	2	2	2	1	2		
Nephrosis	3	3	3	2	3	3	3	1	3		
Renal Tubule, Necrosis									4		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
4.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	3	3	3	3	3	3	4	3	3	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Acute	2	1	2	3	2	2	3	3	3		9 2.3
Ulcer				2			3	2	3	2	5 2.4
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
4.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	3	3	3	3	3	3	4	3	3	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative										4	1 4.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	M	+	+	+	+	+	+	+	9
Testes	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Atrophy	4	4	4	4	4	4	4	4	4	4	10 4.0
Thymus	+	+	+	+	+	+	+	+	+	+	10
Atrophy							3				1 3.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
4.0 G/KG

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	1		
	3	3	3	3	3	3	4	3	3	1		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	6	6	6	6		
	0	0	0	0	0	0	0	0	0	1		
	1	2	3	4	5	6	7	8	9	0	*TOTALS	
Necrosis	4	4	4	3	3	4		4	4	4	9	3.8
Integumentary System												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10	
Skin	+	+	+	+	+	+	+	+	+	+	10	
Musculoskeletal System												
Bone	+	+	+	+	+	+	+	+	+	+	10	
Nervous System												
Brain	+	+	+	+	+	+	+	+	+	+	10	
Respiratory System												
Lung	+	+	+	+	+	+	+	+	+	+	10	
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative	2	2	2		2	2		2	2		7	2.0
Metaplasia, Squamous				1						2	2	1.5
Olfactory Epi, Degeneration	4	4	4	2	3	3		4	4	4	9	3.6
Respirat Epith, Necrosis	4	4	4	2	3	3		4	4	4	9	3.6
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Special Senses System												
Eye	+	+	+	+	+	+	+	+	+	+	10	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation, Porphyrin	4	4	4	4	4	4	1	4	4	4	10	3.7

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
4.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	1	
	3	3	3	3	3	3	4	3	3	3	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	6	
	0	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	0	*TOTALS

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	1											1 1.0
Renal Tubule, Necrosis										2		1 2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	10

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	1										1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Acinus, Atrophy, Focal					1						1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active					1						1 1.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female
0 G/KG**

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS
	1	1	1	1	1	1	1	1	1	1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
General Body System											
NONE											
Genital System											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Endometrium, Hyperplasia, Cystic							1				1 1.0
Hematopoietic System											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node									+		1
Deep Cervical, Ectasia									3		1 3.0
Deep Cervical, Hyperplasia, Lymphoid									3		1 3.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:24

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
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Nervous System

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

Respiratory System

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	1	1	1		1						4 1.0
Metaplasia, Osseous					1						1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10

Special Senses System

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Pigmentation, Porphyrin	1	1		1							3 1.0

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X ..Lesion present

I ..Insufficient tissue

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1		
	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0		
	*TOTALS											
Nephropathy	1										1	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0.25 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Liver											+	1	
Hepatodiaphragmatic Nodule											X		1
Mesentery												+	1
Fat, Necrosis												2	1 2.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node											+	+	+	3	
Deep Cervical, Ectasia											3	2	1	3	2.0
Deep Cervical, Hyperplasia, Lymphoid											2	2	1	3	1.7

Integumentary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0.25 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	----

Pigmentation, Porphyrin		1		1	1					1	4	1.0
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Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

Nephropathy								1		1	2	1.0
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Renal Tubule, Degeneration	1	1	1	1	1	1	1	1	1	1	10	1.0
----------------------------	---	---	---	---	---	---	---	---	---	---	----	-----

Renal Tubule, Mineralization					1			1			2	1.0
------------------------------	--	--	--	--	---	--	--	---	--	--	---	-----

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X ..Lesion present

I ..Insufficient tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0.5 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Liver											+	1
Hepatodiaphragmatic Nodule											X	1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node											+	+	+								5	
Deep Cervical, Ectasia											1		1						1	3	4	1.5
Deep Cervical, Hyperplasia, Lymphoid											2		3	3					2	2	5	2.4
Spleen											+	+	+	+	+	+	+	+	+	+	10	
Thymus																			+		1	
Hemorrhage																			2		1	2.0

Integumentary System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0.5 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Nose	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

Special Senses System

Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	----

Pigmentation, Porphyrin			1							1	2 1.0
-------------------------	--	--	---	--	--	--	--	--	--	---	-------

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

Nephropathy			1			1		1			3 1.0
-------------	--	--	---	--	--	---	--	---	--	--	-------

Renal Tubule, Degeneration	1	1	1	1	1	1	1	1	1	1	10 1.0
----------------------------	---	---	---	---	---	---	---	---	---	---	--------

Renal Tubule, Mineralization						1					1 1.0
------------------------------	--	--	--	--	--	---	--	--	--	--	-------

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female
1.0 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	6	9	9	9	9	
	3	3	3	3	3	4	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Esophagus											+	1									
Intestine Large, Cecum											+	1									
Intestine Large, Colon											+	1									
Intestine Large, Rectum											+	1									
Intestine Small, Duodenum											+	1									
Intestine Small, Ileum											+	1									
Intestine Small, Jejunum											+	1									
Liver											+	+	2								
Fibrosis, Focal												1	1 1.0								
Hepatodiaphragmatic Nodule											X		1								
Inflammation, Chronic												1	1 1.0								
Pancreas											+	1									
Salivary Glands											+	1									
Stomach, Forestomach											+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular											+	1									

Cardiovascular System

Blood Vessel											+	1
Heart											+	1

Endocrine System

Adrenal Cortex											+	1
----------------	--	--	--	--	--	--	--	--	--	--	---	---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
1.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	6	9	9	9	9
	3	3	3	3	3	4	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Adrenal Medulla											+	1										
Islets, Pancreatic											+	1										
Parathyroid Gland											+	1										
Pituitary Gland											+	1										
Thyroid Gland											+	1										
General Body System																						
NONE																						
Genital System																						
Clitoral Gland											+	1										
Ovary											+	1										
Uterus											+	1										
Hematopoietic System																						
Bone Marrow											+	1										
Lymph Node											+	1										
Deep Cervical, Hyperplasia, Lymphoid											3	1 3.0										
Lymph Node, Mandibular											M	0										
Lymph Node, Mesenteric											+	+	+	3								
Atrophy												1	1	2 1.0								
Spleen											+	+	+	+	+	+	+	+	+	+	10	
Atrophy																					1	1 1.0
Thymus											+	+	+	+	+	+	+	+	+	+	10	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
1.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	6	9	9	9	9	
	3	3	3	3	3	4	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Integumentary System

Mammary Gland											+	1
Skin											+	1

Musculoskeletal System

Bone											+	1
------	--	--	--	--	--	--	--	--	--	--	---	---

Nervous System

Brain											+	1
-------	--	--	--	--	--	--	--	--	--	--	---	---

Respiratory System

Lung											+	1
Vein, Thrombosis											2	1 2.0
Nose											+ + + + + + + + + +	10
Inflammation, Chronic											1 1 1 1 1 1 1	9 1.0
Inflammation, Suppurative											1	1 1.0
Olfactory Epi, Degeneration											2	1 1.5
Respirat Epith, Necrosis											1	1 1.0
Trachea											+	1

Special Senses System

Eye											+	1
Harderian Gland											+ + + + + + + + + +	10
Pigmentation, Porphyrin											1	4 1.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
1.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	6	9	9	9	9	
	3	3	3	3	3	4	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Nephropathy			1	1		1			1		4	1.0
Nephrosis	1	1	1	1	1	1	1	1	1	1	10	1.0
Renal Tubule, Mineralization								1			1	1.0
Urinary Bladder						+					1	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
2.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	0	9	9	0	8	9	0
	3	3	3	4	3	3	3	7	3	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Atrophy				3							1 3.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Atrophy				3							1 3.0
Liver	+	+	+	+	+	+	+	+	+	+	10
Bile Duct, Hyperplasia										1	1 1.0
Hepatodiaphragmatic Nodule			X								1
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Acute	1			2			2			2	4 1.8
Ulcer				3			2				2 2.5
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
2.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	0	9	9	0	8	9	0	
	3	3	3	4	3	3	3	7	3	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Endometrium, Hyperplasia, Cystic							1				1 1.0

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node							+				1
Deep Cervical, Ectasia							1				1 1.0
Deep Cervical, Hyperplasia, Lymphoid							3				1 3.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
2.0 G/KG

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	9	9	9	0	9	9	0	8	9	0			
	3	3	3	4	3	3	3	7	3	2			
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	5	5	5	5	5	5	5	5	5	5			
	5	5	5	5	5	5	5	5	5	6			
	1	2	3	4	5	6	7	8	9	0			
											*TOTALS		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Atrophy				1	3	1	2				4	1.8	
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Atrophy	1	1	1	4	1	1	3	3	1	2	10	1.8	
Thymus	+	+	+	+	+	+	+	+	+	+	10		
Atrophy					3						1	3.0	
Necrosis			1		1			2			3	1.3	
Integumentary System													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10		
Skin	+	+	+	+	+	+	+	+	+	+	10		
Musculoskeletal System													
Bone	+	+	+	+	+	+	+	+	+	+	10		
Nervous System													
Brain	+	+	+	+	+	+	+	+	+	+	10		
Respiratory System													
Lung	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic	1		1			1			1		4	1.0	
Metaplasia, Osseous			1								1	1.0	
Nose	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic	2	1	1		2						4	1.5	
Inflammation, Suppurative	1	1	1	2		4			1		6	1.7	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
2.0 G/KG

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	0	9	9	0	8	9	0		
	3	3	3	4	3	3	3	7	3	2		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS	
0	0	0	0	0	0	0	0	0	0	0		
5	5	5	5	5	5	5	5	5	5	5		
5	5	5	5	5	5	5	5	5	5	6		
1	2	3	4	5	6	7	8	9	0	0		
Olfactory Epi, Degeneration	3	3	3	4	2	3			2		7	2.9
Respirat Epith, Necrosis	2					3					2	2.5
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic	2										1	2.0
Special Senses System												
Eye	+	+	+	+	+	+	+	+	+	+	10	
Cataract	3										1	3.0
Postr Chamber, Exudate	4										1	4.0
Retina, Atrophy	2										1	2.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation, Porphyrin				2	1		2		1	2	5	1.6
Urinary System												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Nephropathy			1								1	1.0
Nephrosis	1	1	1		1	1		2	1		7	1.1
Renal Tubule, Mineralization									1		1	1.0
Renal Tubule, Necrosis				3			4				2	3.5
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:25

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
4.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	2	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Acute	3	3	3	3	2	3	3	3	2	3	10 2.8
Ulcer		2	2					3			3 2.3
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:26

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female
4.0 G/KG**

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	6	6	6	6		
	5	5	5	5	5	5	5	5	5	5		
	1	2	3	4	5	6	7	8	9	0		
	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	2	3	3	3	3		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	6	6	6	6		
	5	5	5	5	5	5	5	5	5	5		
	1	2	3	4	5	6	7	8	9	0		
											*TOTALS	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+		10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+		10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		10
General Body System												
NONE												
Genital System												
Clitoral Gland	+	+	+	+	+	+	+	+	+	+		10
Ovary	+	+	+	+	+	+	+	+	+	+		10
Uterus	+	+	+	+	+	+	+	+	+	+		10
Hematopoietic System												
Bone Marrow	+	+	+	+	+	+	+	+	+	+		10
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M		0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+		10
Spleen	+	+	+	+	+	+	+	+	+	+		10
Atrophy	4	4	4	4	4	3	3	4	4	4	10	3.8
Thymus	+	+	+	+	+	+	+	+	+	+		10
Necrosis	3	3	3	3		1	1		4	3	8	2.6
Integumentary System												
Mammary Gland	+	+	+	+	+	+	+	+	+	+		10
Skin	+	+	+	+	+	+	+	+	+	+		10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:26

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female
4.0 G/KG**

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Lung	+	+	+	+	+	+	+	+	+	+	10
Alveolus, Necrosis, Acute						4					1 4.0
Metaplasia, Osseous										1	1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative	1	1	2		2	4	1	1	2	2	9 1.8
Olfactory Epi, Degeneration	4	4	4	2	4	4	4	4	4	4	10 3.8
Respirat Epith, Necrosis	4	4	4	2	4	4	4	4	4	4	10 3.8
Trachea	+	+	+	+	+	+	+	+	+	+	10
Special Senses System											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Pigmentation, Porphyrin	4	4	4	4	4	4	4	4	4	4	10 4.0
Lacrimal Gland										+	1
Epithelium, Degeneration										1	1 1.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99023-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 10/19/2014

Time Report Requested: 12:49:26

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
4.0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	2	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Atrophy											4	1 4.0
Renal Tubule, Mineralization	1											1 1.0
Renal Tubule, Necrosis		4		4								2 4.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

** END OF REPORT **

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked