

**Experiment Number:** 99023-01

**Test Type:** 90-DAY

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

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**

**Test Compound:** beta-Myrcene

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

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 12:47:26

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

**Lab:** BAT

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

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## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

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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 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
<b>Disposition Summary</b>						
<b>Animals Initially In Study</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Early Deaths</b>						
<b>Dosing Accident</b>			<b>1</b>	<b>1</b>		
<b>Moribund Sacrifice</b>						<b>2</b>
<b>Natural Death</b>					<b>2</b>	<b>8</b>
<b>Survivors</b>						
<b>Terminal Sacrifice</b>	<b>10</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>8</b>	
<b>Animals Examined Microscopically</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(1)	(1)	(10)	(10)
Perforation			1 (100%)			
Intestine Large, Cecum	(10)	(0)	(1)	(1)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(1)	(1)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(1)	(1)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(1)	(1)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(1)	(1)	(10)	(10)
Intestine Small, Jejunum	(10)	(0)	(1)	(1)	(10)	(10)
Atrophy					2 (20%)	
Liver	(10)	(0)	(2)	(1)	(10)	(10)
Fibrosis, Focal					1 (10%)	
Hepatodiaphragmatic Nodule	1 (10%)		1 (50%)			
Inflammation, Chronic					1 (10%)	
Oral Mucosa	(0)	(0)	(0)	(0)	(2)	(0)
Inflammation, Chronic					1 (50%)	
Pancreas	(10)	(0)	(1)	(1)	(10)	(10)
Acinus, Atrophy	1 (10%)				1 (10%)	
Salivary Glands	(10)	(0)	(1)	(1)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(1)	(10)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

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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 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
Inflammation, Acute Ulcer					1 (10%)	9 (90%)
Stomach, Glandular	(10)	(0)	(1)	(1)	(10)	5 (50%) (10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(1)	(1)	(10)	(10)
Heart	(10)	(0)	(1)	(1)	(10)	(10)
Inflammation, Chronic Active	5 (50%)					
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(1)	(1)	(10)	(10)
Hemorrhage					1 (10%)	
Hyperplasia, Focal	2 (20%)					
Adrenal Medulla	(10)	(0)	(1)	(1)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(1)	(1)	(10)	(10)
Parathyroid Gland	(10)	(0)	(1)	(1)	(9)	(9)
Pituitary Gland	(10)	(0)	(1)	(1)	(10)	(10)
Thyroid Gland	(10)	(0)	(1)	(1)	(10)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(1)	(1)	(10)	(10)
Degeneration					1 (10%)	
Preputial Gland	(10)	(0)	(1)	(1)	(10)	(10)
Inflammation, Suppurative						1 (10%)
Prostate	(10)	(0)	(1)	(1)	(10)	(10)
Seminal Vesicle	(10)	(0)	(1)	(1)	(10)	(9)
Atrophy					1 (10%)	
Testes	(10)	(0)	(1)	(1)	(10)	(10)
Germinal Epith, Degeneration					1 (10%)	

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(1)	(1)	(10)	(10)
Lymph Node	(1)	(2)	(4)	(1)	(0)	(0)
Deep Cervical, Ectasia	1 (100%)	2 (100%)	4 (100%)	1 (100%)		
Deep Cervical, Hyperplasia, Lymphoid	1 (100%)	2 (100%)	4 (100%)	1 (100%)		
Lymph Node, Mandibular	(0)	(0)	(0)	(1)	(0)	(0)
Lymph Node, Mesenteric	(10)	(0)	(1)	(1)	(10)	(10)
Atrophy				1 (100%)	6 (60%)	
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy			1 (10%)		10 (100%)	10 (100%)
Thymus	(10)	(0)	(1)	(10)	(9)	(10)
Atrophy						1 (10%)
Necrosis					1 (11%)	9 (90%)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(1)	(1)	(10)	(10)
Skin	(10)	(0)	(1)	(1)	(10)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(1)	(1)	(10)	(10)
Skeletal Muscle	(0)	(0)	(1)	(0)	(0)	(0)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(1)	(1)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(0)	(1)	(1)	(10)	(10)
Bronchus, Infiltration Cellular, Polymorphnuclr					1 (10%)	
Congestion				1 (100%)		
Inflammation, Chronic	5 (50%)				3 (30%)	
Inflammation, Suppurative					1 (10%)	

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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 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
Metaplasia, Osseous	1 (10%)					
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic			1 (10%)	6 (60%)	8 (80%)	
Inflammation, Suppurative				1 (10%)	3 (30%)	7 (70%)
Metaplasia, Squamous						2 (20%)
Olfactory Epi, Degeneration				2 (20%)	8 (80%)	9 (90%)
Respirat Epith, Necrosis						9 (90%)
Trachea	(10)	(0)	(1)	(1)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(1)	(1)	(10)	(10)
Antr Chamber, Cornea, Inflammation, Suppurative					1 (10%)	
Harderian Gland	(10)	(10)	(10)	(10)	(9)	(10)
Pigmentation, Porphyrin	1 (10%)	3 (30%)	7 (70%)	8 (80%)	9 (100%)	10 (100%)
Lacrimal Gland	(0)	(0)	(0)	(0)	(1)	(0)
Zymbal's Gland	(0)	(0)	(0)	(0)	(1)	(0)
URINARY SYSTEM						
Kidney	(7)	(10)	(9)	(10)	(10)	(10)
Nephropathy	7 (100%)	10 (100%)	9 (100%)	8 (80%)	9 (90%)	1 (10%)
Nephrosis			1 (11%)	10 (100%)	9 (90%)	
Renal Tubule, Accumulation, Hyaline Droplet		10 (100%)	9 (100%)	10 (100%)		
Renal Tubule, Degeneration		10 (100%)	9 (100%)			
Renal Tubule, Necrosis					1 (10%)	1 (10%)
Urinary Bladder	(10)	(0)	(1)	(1)	(10)	(10)

\*\*\*END OF MALE DATA\*\*\*

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Time Report Requested: 12:47:27

Species/Strain: Rat/F 344/N

CAS Number: 123-35-3

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
<b>Disposition Summary</b>						
<b>Animals Initially In Study</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Early Deaths</b>						
<b>Dosing Accident</b>				<b>1</b>		<b>1</b>
<b>Moribund Sacrifice</b>					<b>2</b>	<b>1</b>
<b>Natural Death</b>					<b>2</b>	<b>8</b>
<b>Survivors</b>						
<b>Terminal Sacrifice</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>9</b>	<b>6</b>	
<b>Animals Examined Microscopically</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(1)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(1)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(1)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(1)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(1)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(1)	(10)	(10)
Atrophy					1 (10%)	
Intestine Small, Jejunum	(10)	(0)	(0)	(1)	(10)	(10)
Atrophy					1 (10%)	
Liver	(10)	(1)	(1)	(2)	(10)	(10)
Bile Duct, Hyperplasia					1 (10%)	
Fibrosis, Focal				1 (50%)		
Hepatodiaphragmatic Nodule		1 (100%)	1 (100%)	1 (50%)	1 (10%)	
Inflammation, Chronic	1 (10%)			1 (50%)		
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Fat, Necrosis		1 (100%)				
Pancreas	(10)	(0)	(0)	(1)	(10)	(10)
Acinus, Atrophy, Focal	1 (10%)					
Salivary Glands	(10)	(0)	(0)	(1)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

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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 FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
Stomach, Forestomach	(10)	(0)	(0)	(10)	(10)	(10)
Inflammation, Acute					4 (40%)	10 (100%)
Ulcer					2 (20%)	3 (30%)
Stomach, Glandular	(10)	(0)	(0)	(1)	(10)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(0)	(1)	(10)	(10)
Heart	(10)	(0)	(0)	(1)	(10)	(10)
Inflammation, Chronic Active	1 (10%)					
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(1)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(1)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(1)	(10)	(10)
Parathyroid Gland	(9)	(0)	(0)	(1)	(10)	(10)
Pituitary Gland	(10)	(0)	(0)	(1)	(10)	(10)
Thyroid Gland	(10)	(0)	(0)	(1)	(10)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(10)	(0)	(0)	(1)	(10)	(10)
Ovary	(10)	(0)	(0)	(1)	(10)	(10)
Uterus	(10)	(0)	(0)	(1)	(10)	(10)
Endometrium, Hyperplasia, Cystic	1 (10%)				1 (10%)	
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(1)	(10)	(10)
Lymph Node	(1)	(3)	(5)	(1)	(1)	(0)
Deep Cervical, Ectasia	1 (100%)	3 (100%)	4 (80%)		1 (100%)	
Deep Cervical, Hyperplasia, Lymphoid	1 (100%)	3 (100%)	5 (100%)	1 (100%)	1 (100%)	
Lymph Node, Mesenteric	(10)	(0)	(0)	(3)	(10)	(10)

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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
Atrophy				2 (67%)	4 (40%)	
Spleen	(10)	(0)	(10)	(10)	(10)	(10)
Atrophy				1 (10%)	10 (100%)	10 (100%)
Thymus	(10)	(0)	(1)	(10)	(10)	(10)
Atrophy					1 (10%)	
Hemorrhage			1 (100%)			
Necrosis					3 (30%)	8 (80%)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(1)	(10)	(10)
Skin	(10)	(0)	(0)	(1)	(10)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(1)	(10)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(1)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(0)	(0)	(1)	(10)	(10)
Alveolus, Necrosis, Acute						1 (10%)
Inflammation, Chronic	4 (40%)				4 (40%)	
Metaplasia, Osseous	1 (10%)				1 (10%)	1 (10%)
Vein, Thrombosis				1 (100%)		
Nose	(10)	(0)	(10)	(10)	(10)	(10)
Inflammation, Chronic				9 (90%)	4 (40%)	
Inflammation, Suppurative				1 (10%)	6 (60%)	9 (90%)
Olfactory Epi, Degeneration				2 (20%)	7 (70%)	10 (100%)
Respirat Epith, Necrosis				1 (10%)	2 (20%)	10 (100%)
Trachea	(10)	(0)	(0)	(1)	(10)	(10)
Inflammation, Chronic					1 (10%)	
<b>SPECIAL SENSES SYSTEM</b>						

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Lab: BAT

F 344/N Rat FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
Eye	(10)	(0)	(0)	(1)	(10)	(10)
Cataract					1 (10%)	
Postr Chamber, Exudate					1 (10%)	
Retina, Atrophy					1 (10%)	
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
Pigmentation, Porphyrin	3 (30%)	4 (40%)	2 (20%)	4 (40%)	5 (50%)	10 (100%)
Lacrimal Gland	(0)	(0)	(0)	(0)	(0)	(1)
Epithelium, Degeneration						1 (100%)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						1 (10%)
Nephropathy	1 (10%)	2 (20%)	3 (30%)	4 (40%)	1 (10%)	
Nephrosis				10 (100%)	7 (70%)	
Renal Tubule, Degeneration		10 (100%)	10 (100%)			
Renal Tubule, Mineralization		2 (20%)	1 (10%)	1 (10%)	1 (10%)	1 (10%)
Renal Tubule, Necrosis					2 (20%)	2 (20%)
Urinary Bladder	(10)	(0)	(0)	(1)	(10)	(10)

\*\* END OF REPORT \*\*