

Experiment Number: 99009 - 01

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 11/14/2016

Test Type: 90-DAY

Myristicin

Time Report Requested: 11:35:41

Route: GAVAGE

CAS Number: 607-91-0

First Dose M/F: 01/20/09 / 01/21/09

Species/Strain: RATS/F 344/N

Lab: BAT

F1\_RD\_Rev.2

**NTP Study Number:** C99009  
**Lock Date:** 04/22/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** 05/22/2012

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Species/Strain: RATS/F 344/N

Lab: BAT

FISCHER 344 RATS MALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic						1 [1.0]
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Parasite Metazoan						1
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Fatty Change					10 [1.6]	10 [1.5]
Hepatodiaphragmatic Nodule	1	1	1	3		1
Mixed Cell Focus						1
Centrilobular, Hepatocyte, Hypertrophy					10 [2.0]	10 [3.0]
Hepatocyte, Necrosis						8 [1.0]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Submandibular Gland, Depletion Secretory						7 [1.3]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Epithelium, Atrophy						10 [1.7]
Epithelium, Hyperplasia						10 [1.8]

## CARDIOVASCULAR SYSTEM

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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Lab: BAT

FISCHER 344 RATS MALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	10 [1.0]					4 [1.0]

## ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(7)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Epididymis	(10)	(10)	(10)	(10)	(10)	(10)
Exfoliated Germ Cell	1 [1.0]	3 [1.3]	1 [1.0]	2 [1.0]	4 [2.3]	10 [1.5]
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(10)	(10)	(10)	(10)	(10)
Elongated Spermatid, Retention	5 [1.0]	3 [1.0]		1 [1.0]	6 [1.0]	10 [1.4]
Germinal Epithelium, Degeneration	5 [1.4]	5 [2.2]	3 [1.3]	6 [1.3]	8 [1.6]	10 [2.3]

## HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)

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FISCHER 344 RATS MALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(1)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	9 [1.1]	10 [1.0]	10 [1.2]	10 [1.0]	9 [1.1]	9 [1.4]
Metaplasia, Osseous	1 [1.0]		1 [1.0]			1 [1.0]
Mineralization	1 [1.0]					
Alveolar Epithelium, Hyperplasia		1 [1.0]				
Alveolus, Infiltration Cellular, Histiocyte	9 [1.0]	6 [1.0]	8 [1.0]	9 [1.0]	10 [1.0]	8 [1.8]
Pleura, Inflammation, Chronic						1 [2.0]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active						1 [1.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet	2 [1.5]					2 [1.0]
Olfactory Epithelium, Degeneration	1 [2.0]					
Olfactory Epithelium, Metaplasia, Squamous	1 [1.0]					
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 [1.0]					2 [1.0]
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic						1 [1.0]

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Species/Strain: RATS/F 344/N

Lab: BAT

FISCHER 344 RATS MALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	1 [1.0]					
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Mineralization	9 [1.0]	7 [1.0]	7 [1.0]	9 [1.0]	10 [1.0]	10 [1.1]
Nephropathy	10 [1.0]	10 [1.0]	9 [1.0]	10 [1.0]	10 [1.0]	10 [1.8]
Renal Tubule, Accumulation, Hyaline Droplet					10 [1.0]	10 [1.9]
Renal Tubule, Dilatation						1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

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Lab: BAT

FISCHER 344 RATS FEMALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						1
Natural Death						2
Survivors						
Terminal Sacrifice	10	10	10	10	10	7
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(8)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Fatty Change					1 [1.0]	10 [1.9]
Hepatodiaphragmatic Nodule	1	3	1	2	1	1
Inflammation, Granulomatous	6 [2.0]	6 [1.3]	8 [1.5]	5 [1.2]	10 [1.4]	
Necrosis						1 [2.0]
Centrilobular, Hepatocyte, Hypertrophy					10 [2.0]	7 [3.0]
Hepatocyte, Necrosis						6 [1.2]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(10)	(10)	(10)
Submandibular Gland, Depletion Secretory					10 [1.5]	7 [3.0]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Acute						1 [1.0]
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Epithelium, Atrophy					5 [1.0]	7 [1.7]
Epithelium, Hyperplasia						7 [1.4]
Epithelium, Necrosis						2 [1.0]

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FISCHER 344 RATS FEMALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	6 [1.0]					4 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(1)	(2)	(1)	(1)	(10)
Cyst		1 [1.0]	2 [1.0]	1 [1.0]	1 [1.0]	
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Granulomatous	2 [1.0]					
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)

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FISCHER 344 RATS FEMALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
Cortex, Depletion Lymphoid						1 [4.0]
Cortex, Necrosis, Lymphoid						3 [2.7]
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body			1			
Inflammation, Chronic Active	2 [1.0]	6 [1.3]	7 [1.0]	7 [1.1]	10 [1.3]	5 [1.0]
Mineralization	1 [1.0]					
Alveolus, Infiltration Cellular, Histiocyte	2 [1.0]	5 [1.2]	8 [1.0]	8 [1.1]	9 [1.0]	7 [1.3]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation	1 [2.0]					
Inflammation, Chronic	1 [1.0]					
Olfactory Epithelium, Accumulation, Hyaline Droplet	6 [1.2]					2 [1.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet	3 [1.3]					2 [1.0]
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation	1 [2.0]					

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FISCHER 344 RATS FEMALE	0 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	600 mg/kg
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(1)	(0)	(0)	(0)	(10)
Hemorrhage		1 [3.0]				
Anterior Chamber, Exudate						1 [2.0]
Cornea, Inflammation, Acute						1 [1.0]
Posterior Chamber, Exudate						1 [2.0]
Retina, Degeneration						1 [1.0]
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	1 [1.0]					
Acinus, Metaplasia						1 [1.0]
<b>URINARY SYSTEM</b>						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Mineralization	8 [1.0]					8 [1.0]
Nephropathy	3 [1.0]					2 [1.0]
Renal Tubule, Dilatation	1 [1.0]					
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

\*\*\* END OF REPORT \*\*\*

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)