

**Experiment Number:** 20007 - 03  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344/N

**P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)**

Kava kava extract  
**CAS Number:** 9000-38-8

**Date Report Requested:** 09/13/2016  
**Time Report Requested:** 11:41:17  
**First Dose M/F:** 09/15/03 / 09/16/03  
**Lab:** BAT

**NTP Study Number:** C20007  
**Lock Date:** 05/24/2004  
**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:** NONE

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FISCHER 344 RATS MALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice			1			
Natural Death						3
Survivors						
Terminal Sacrifice	10	10	9	10	10	7
Animals Examined Microscopically	10	10	10	10	10	10

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ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(1)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(1)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(1)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(1)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(1)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(1)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(1)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Pancreas	(10)	(0)	(1)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(1)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(1)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(1)	(0)	(0)	(10)

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CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(1)	(0)	(0)	(10)
Heart	(10)	(0)	(1)	(0)	(0)	(10)

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ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(1)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(1)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(1)	(0)	(0)	(10)

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

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FISCHER 344 RATS MALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Parathyroid Gland	(10)	(0)	(1)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(1)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(1)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(1)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(1)	(0)	(0)	(10)
Prostate	(10)	(0)	(1)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(1)	(0)	(0)	(10)
Testes	(10)	(0)	(1)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Lymph Node, Mesenteric	(10)	(0)	(1)	(0)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(7)	(0)	(1)	(0)	(0)	(9)
Skin	(10)	(0)	(1)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(1)	(0)	(0)	(10)

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

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FISCHER 344 RATS MALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
<hr/>						
NERVOUS SYSTEM						
Brain	(10)	(0)	(1)	(0)	(0)	(10)
<hr/>						
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(1)	(0)	(0)	(10)
Nose	(10)	(0)	(1)	(0)	(0)	(10)
Trachea	(10)	(0)	(1)	(0)	(0)	(10)
<hr/>						
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(1)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(1)	(0)	(0)	(10)
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URINARY SYSTEM						
Kidney	(10)	(0)	(1)	(0)	(0)	(10)
Urinary Bladder	(10)	(0)	(1)	(0)	(0)	(10)

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

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FISCHER 344 RATS MALE

0 G/KG

0.125 G/KG

0.25 G/KG

0.5 G/KG

1.0 G/KG

2.0 G/KG

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**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)

Total Primary Neoplasms

Total Animals with Benign Neoplasms

Total Benign Neoplasms

Total Animals with Malignant Neoplasms

Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms

Total Metastatic Neoplasms

Total Animals with Malignant Neoplasms

Uncertain Primary Site

Total Animals with Neoplasms Uncertain-

Benign or Malignant

Total Uncertain Neoplasms

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

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

b - Primary tumors: all tumors except metastatic tumors

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Lab: BAT

FISCHER 344 RATS FEMALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice	1					
Natural Death					1	4
Survivors						
Terminal Sacrifice	9	10	10	10	9	6
Animals Examined Microscopically	10	10	10	10	10	10

**ALIMENTARY SYSTEM**

Esophagus	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(1)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Mesentery	(1)	(0)	(0)	(1)	(0)	(0)
Pancreas	(10)	(0)	(0)	(0)	(1)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(1)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(1)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(1)	(10)

**CARDIOVASCULAR SYSTEM**

Blood Vessel	(10)	(0)	(0)	(0)	(1)	(10)
Heart	(10)	(0)	(0)	(0)	(1)	(10)

**ENDOCRINE SYSTEM**

Adrenal Cortex	(10)	(0)	(0)	(0)	(1)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(1)	(10)

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

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Islets, Pancreatic	(10)	(0)	(0)	(0)	(1)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(1)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(1)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(1)	(9)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(1)	(10)
Ovary	(10)	(0)	(0)	(0)	(1)	(10)
Uterus	(10)	(0)	(0)	(0)	(1)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(1)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(1)	(10)
Skin	(10)	(0)	(0)	(0)	(1)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(1)	(10)

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

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NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(1)	(10)
<hr/>						
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(1)	(10)
Nose	(10)	(0)	(0)	(0)	(1)	(10)
Trachea	(10)	(0)	(0)	(0)	(1)	(10)
<hr/>						
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(1)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(1)	(10)
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URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(1)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(1)	(10)

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



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FISCHER 344 RATS FEMALE

0 G/KG

0.125 G/KG

0.25 G/KG

0.5 G/KG

1.0 G/KG

2.0 G/KG

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## Tumor Summary for Females

Total Animals with Primary Neoplasms (b)

Total Primary Neoplasms

Total Animals with Benign Neoplasms

Total Benign Neoplasms

Total Animals with Malignant Neoplasms

Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms

Total Metastatic Neoplasms

Total Animals with Malignant Neoplasms

Uncertain Primary Site

Total Animals with Neoplasms Uncertain-

Benign or Malignant

Total Uncertain Neoplasms

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

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

b - Primary tumors: all tumors except metastatic tumors