

**Experiment Number:** 99037-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

**Test Compound:** alpha/beta Thujone mixture  
**CAS Number:** 76231-76-0

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 20:56:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**C Number:** C99037  
**Lock Date:** 01/24/2002  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** NONE

Experiment Number: 99037-01

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Date Report Requested: 10/22/2014

Test Type: 14-DAY

Test Compound: alpha/beta Thujone mixture

Time Report Requested: 20:56:29

Route: GAVAGE

CAS Number: 76231-76-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat MALE	VEHICLE CONTROL	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG	30.0 MG/KG	100 MG/KG
<b>Disposition Summary</b>						
Animals Initially In Study	5	5	5	5	5	5
Early Deaths						
Natural Death						1
Survivors						
Terminal Sacrifice	5	5	5	5	5	4
Animals Examined Microscopically	5			1		5
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Large, Cecum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Large, Colon	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Large, Rectum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Small, Duodenum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Small, Ileum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Small, Jejunum	(5)	(0)	(0)	(0)	(0)	(5)
Liver	(5)	(0)	(0)	(1)	(0)	(5)
Pancreas	(5)	(0)	(0)	(0)	(0)	(5)
Salivary Glands	(5)	(0)	(0)	(0)	(0)	(5)
Stomach, Forestomach	(5)	(0)	(0)	(0)	(0)	(5)
Stomach, Glandular	(5)	(0)	(0)	(0)	(0)	(5)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(5)	(0)	(0)	(0)	(0)	(5)
Heart	(5)	(0)	(0)	(0)	(0)	(5)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(5)	(0)	(0)	(0)	(0)	(5)
Adrenal Medulla	(5)	(0)	(0)	(0)	(0)	(5)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat MALE	VEHICLE CONTROL	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG	30.0 MG/KG	100 MG/KG
Islets, Pancreatic	(5)	(0)	(0)	(0)	(0)	(5)
Parathyroid Gland	(5)	(0)	(0)	(0)	(0)	(3)
Pituitary Gland	(5)	(0)	(0)	(0)	(0)	(5)
Thyroid Gland	(5)	(0)	(0)	(0)	(0)	(5)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(5)	(0)	(0)	(0)	(0)	(5)
Preputial Gland	(5)	(0)	(0)	(0)	(0)	(5)
Prostate	(5)	(0)	(0)	(0)	(0)	(5)
Seminal Vesicle	(4)	(0)	(0)	(0)	(0)	(4)
Testes	(5)	(0)	(0)	(0)	(0)	(5)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(5)	(0)	(0)	(0)	(0)	(5)
Lymph Node, Mesenteric	(5)	(0)	(0)	(0)	(0)	(5)
Spleen	(5)	(0)	(0)	(0)	(0)	(5)
Thymus	(5)	(0)	(0)	(0)	(0)	(5)
INTEGUMENTARY SYSTEM						
Mammary Gland	(3)	(0)	(0)	(0)	(0)	(2)
Skin	(5)	(0)	(0)	(0)	(0)	(5)
MUSCULOSKELETAL SYSTEM						
Bone	(5)	(0)	(0)	(0)	(0)	(5)
Skeletal Muscle	(5)	(0)	(0)	(0)	(0)	(5)
NERVOUS SYSTEM						
Brain, NOS	(5)	(0)	(0)	(0)	(0)	(5)
Peripheral Nerve, Sciatic	(5)	(0)	(0)	(0)	(0)	(5)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat MALE	VEHICLE CONTROL	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG	30.0 MG/KG	100 MG/KG
Spinal Cord, Cervical	(5)	(0)	(0)	(0)	(0)	(5)
Spinal Cord, Lumbar	(5)	(0)	(0)	(0)	(0)	(5)
RESPIRATORY SYSTEM						
Larynx	(3)	(0)	(0)	(0)	(0)	(3)
Lung	(5)	(0)	(0)	(0)	(0)	(5)
Nose	(5)	(0)	(0)	(0)	(0)	(4)
Trachea	(5)	(0)	(0)	(0)	(0)	(5)
SPECIAL SENSES SYSTEM						
Eye	(5)	(0)	(0)	(0)	(0)	(5)
Harderian Gland	(5)	(0)	(0)	(0)	(0)	(5)
URINARY SYSTEM						
Kidney	(5)	(0)	(0)	(0)	(0)	(5)
Urinary Bladder	(5)	(0)	(0)	(0)	(0)	(5)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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

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<b>F 344/N Rat MALE</b>	<b>VEHICLE CONTROL</b>	<b>1.0 MG/KG</b>	<b>3.0 MG/KG</b>	<b>10.0 MG/KG</b>	<b>30.0 MG/KG</b>	<b>100 MG/KG</b>
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**Tumor Summary for MALE**

**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 DATA\*\*\*

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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Route: GAVAGE

Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat FEMALE	VEHICLE CONTROL	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG	30.0 MG/KG	100 MG/KG
<b>Disposition Summary</b>						
Animals Initially In Study	5	5	5	5	5	5
Early Deaths						
Survivors						
Terminal Sacrifice	5	5	5	5	5	5
Animals Examined Microscopically	5					5
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Large, Cecum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Large, Colon	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Large, Rectum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Small, Duodenum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Small, Ileum	(5)	(0)	(0)	(0)	(0)	(5)
Intestine Small, Jejunum	(5)	(0)	(0)	(0)	(0)	(5)
Liver	(5)	(0)	(0)	(0)	(0)	(5)
Pancreas	(5)	(0)	(0)	(0)	(0)	(5)
Salivary Glands	(5)	(0)	(0)	(0)	(0)	(5)
Stomach, Forestomach	(5)	(0)	(0)	(0)	(0)	(5)
Stomach, Glandular	(5)	(0)	(0)	(0)	(0)	(5)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(5)	(0)	(0)	(0)	(0)	(5)
Heart	(5)	(0)	(0)	(0)	(0)	(5)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(5)	(0)	(0)	(0)	(0)	(5)
Adrenal Medulla	(5)	(0)	(0)	(0)	(0)	(5)
Islets, Pancreatic	(5)	(0)	(0)	(0)	(0)	(5)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat FEMALE	VEHICLE CONTROL	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG	30.0 MG/KG	100 MG/KG
Parathyroid Gland	(3)	(0)	(0)	(0)	(0)	(4)
Pituitary Gland	(5)	(0)	(0)	(0)	(0)	(5)
Thyroid Gland	(5)	(0)	(0)	(0)	(0)	(5)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(5)	(0)	(0)	(0)	(0)	(5)
Ovary	(5)	(0)	(0)	(0)	(0)	(5)
Uterus	(5)	(0)	(0)	(0)	(0)	(5)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(5)	(0)	(0)	(0)	(0)	(5)
Lymph Node, Mesenteric	(5)	(0)	(0)	(0)	(0)	(5)
Spleen	(5)	(0)	(0)	(0)	(0)	(5)
Thymus	(5)	(0)	(0)	(0)	(0)	(5)
INTEGUMENTARY SYSTEM						
Mammary Gland	(5)	(0)	(0)	(0)	(0)	(5)
Skin	(5)	(0)	(0)	(0)	(0)	(5)
MUSCULOSKELETAL SYSTEM						
Bone	(5)	(0)	(0)	(0)	(0)	(5)
Skeletal Muscle	(5)	(0)	(0)	(0)	(0)	(5)
NERVOUS SYSTEM						
Brain, NOS	(5)	(0)	(0)	(0)	(0)	(5)
Peripheral Nerve, Sciatic	(5)	(0)	(0)	(0)	(0)	(5)
Spinal Cord, Cervical	(5)	(0)	(0)	(0)	(0)	(5)
Spinal Cord, Lumbar	(5)	(0)	(0)	(0)	(0)	(5)

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

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\* Number of animals with any tissue examined microscopically

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F 344/N Rat FEMALE	VEHICLE CONTROL	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG	30.0 MG/KG	100 MG/KG
<b>RESPIRATORY SYSTEM</b>						
Larynx	(1)	(0)	(0)	(0)	(0)	(4)
Lung	(5)	(0)	(0)	(0)	(0)	(5)
Nose	(5)	(0)	(0)	(0)	(0)	(5)
Trachea	(5)	(0)	(0)	(0)	(0)	(5)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(5)	(0)	(0)	(0)	(0)	(5)
Harderian Gland	(5)	(0)	(0)	(0)	(0)	(5)
<b>URINARY SYSTEM</b>						
Kidney	(5)	(0)	(0)	(0)	(0)	(5)
Urinary Bladder	(5)	(0)	(0)	(0)	(0)	(5)

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

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\* Number of animals with any tissue examined microscopically



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First Dose M/F: NA / NA  
Lab: MBA

F 344/N Rat FEMALE

VEHICLE CONTROL

1.0 MG/KG

3.0 MG/KG

10.0 MG/KG

30.0 MG/KG

100 MG/KG

Tumor Summary for FEMALE

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

\*\* 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

\* Number of animals with any tissue examined microscopically