

**Experiment Number:** 56111-01  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

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

**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 07:14:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C56111B
<b>Lock Date:</b>	01/02/1996
<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

Experiment Number: 56111-01

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

Date Report Requested: 10/19/2014

Test Type: 90-DAY

Test Compound: trans-Cinnamaldehyde

Time Report Requested: 07:14:50

Route: DOSED FEED

CAS Number: 14371-10-9

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat MALE	UNTREATD L CONTRO	VEHICLE CONTROL	1.25%	2.5%	5.0%	10.0%
<b>Disposition Summary</b>						
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
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(10)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(6)	(7)	(6)	(10)
Pancreas	(10)	(10)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(10)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Stomach, Glandular	(10)	(10)	(0)	(0)	(1)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(10)	(0)	(0)	(0)	(10)
Heart	(10)	(10)	(0)	(0)	(0)	(10)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(10)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(10)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(10)	(0)	(0)	(0)	(10)

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: BAT

F 344/N Rat MALE	UNTREATD L CONTRO	VEHICLE CONTROL	1.25%	2.5%	5.0%	10.0%
Parathyroid Gland	(9)	(9)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(10)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(10)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(10)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(9)	(0)	(0)	(0)	(10)
Prostate	(10)	(10)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(10)	(0)	(0)	(0)	(10)
Testes	(10)	(10)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(0)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(10)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(10)	(0)	(0)	(0)	(10)
Spleen	(10)	(10)	(0)	(0)	(0)	(10)
Thymus	(10)	(9)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(8)	(9)	(0)	(0)	(0)	(7)
Skin	(10)	(10)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(10)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(10)	(0)	(0)	(0)	(10)

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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**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 07:14:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

F 344/N Rat MALE	UNTREATD L CONTRO	VEHICLE CONTROL	1.25%	2.5%	5.0%	10.0%
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(10)	(0)	(0)	(0)	(10)
Nose	(10)	(10)	(0)	(0)	(0)	(10)
Trachea	(10)	(10)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(0)	(0)	(0)	(10)
Urinary Bladder	(10)	(10)	(0)	(0)	(0)	(10)

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

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**F 344/N Rat MALE**

**UNTREATDCONTRO**  
**L** **VEHICLE CONTROL**

**1.25%**

**2.5%**

**5.0%**

**10.0%**

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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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Test Compound: trans-Cinnamaldehyde

Time Report Requested: 07:14:50

Route: DOSED FEED

CAS Number: 14371-10-9

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat FEMALE	UNTREATD L CONTRO	VEHICLE CONTROL	1.25%	2.5%	5.0%	10.0%
<b>Disposition Summary</b>						
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
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(10)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(8)	(8)	(4)	(10)
Oral Mucosa	(0)	(0)	(0)	(0)	(0)	(1)
Pancreas	(10)	(10)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(10)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Stomach, Glandular	(10)	(10)	(0)	(0)	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(10)	(0)	(0)	(0)	(10)
Heart	(10)	(10)	(0)	(0)	(0)	(10)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(10)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(10)	(0)	(0)	(0)	(10)

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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F 344/N Rat FEMALE	UNTREATD L CONTRO	VEHICLE CONTROL	1.25%	2.5%	5.0%	10.0%
Islets, Pancreatic	(10)	(10)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(8)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(10)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(10)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(10)	(0)	(0)	(0)	(10)
Ovary	(10)	(10)	(3)	(1)	(0)	(10)
Uterus	(10)	(10)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mandibular	(10)	(9)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(10)	(0)	(0)	(0)	(10)
Spleen	(10)	(10)	(0)	(0)	(0)	(10)
Thymus	(10)	(10)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(10)	(0)	(0)	(0)	(10)
Skin	(10)	(10)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(10)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(10)	(0)	(0)	(0)	(10)

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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**Lab:** BAT

F 344/N Rat FEMALE	UNTREATD L CONTRO	VEHICLE CONTROL	1.25%	2.5%	5.0%	10.0%
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(10)	(0)	(0)	(0)	(10)
Nose	(10)	(10)	(0)	(0)	(0)	(10)
Trachea	(10)	(10)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(0)	(0)	(0)	(10)
Urinary Bladder	(10)	(10)	(0)	(0)	(0)	(10)

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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**Lab:** BAT

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**F 344/N Rat FEMALE**

**UNTREATDCONTRO**  
**L**  
**VEHICLE CONTROL**

**1.25%**

**2.5%**

**5.0%**

**10.0%**

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**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**

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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

\* Number of animals with any tissue examined microscopically