

TDMS No. 20307 - 03

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

Date Report Requested: 07/27/2011

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

Time Report Requested: 12:19:40

Route: SKIN APPLICATION

CAS Number: 54464-57-2

First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

F1_RD

C Number: C20307
Lock Date: 12/23/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.2.1_003
PWG Approval Date: NONE

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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Route: SKIN APPLICATION

CAS Number: 54464-57-2

First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE

untreated	vehicle	6.25%	12.5%	25%	50%
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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)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(10)	(10)	(0)	(0)	(0)	(0)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Oral Mucosa	(10)	(10)	(0)	(0)	(0)	(0)
Pancreas	(10)	(10)	(0)	(0)	(0)	(0)
Salivary Glands	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Glandular	(10)	(10)	(0)	(0)	(0)	(0)
Tongue	(10)	(10)	(0)	(0)	(0)	(0)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)	(0)	(0)	(0)	(0)
Adrenal Medulla	(10)	(10)	(0)	(0)	(0)	(0)
Parathyroid Gland	(10)	(10)	(0)	(0)	(0)	(0)

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

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE

	untreated	vehicle	6.25%	12.5%	25%	50%
Pituitary Gland	(9)	(8)	(0)	(0)	(0)	(0)
Thyroid Gland	(10)	(10)	(0)	(0)	(0)	(0)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(10)	(0)	(0)	(0)	(0)
Preputial Gland	(9)	(8)	(0)	(0)	(0)	(0)
Prostate	(10)	(10)	(0)	(0)	(0)	(0)
Seminal Vesicle	(10)	(10)	(0)	(0)	(0)	(0)
Testes	(10)	(10)	(0)	(0)	(0)	(0)

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(10)	(0)	(0)	(0)	(0)
Skin	(10)	(10)	(10)	(10)	(10)	(10)
Skin, Site Of Application	(10)	(10)	(10)	(10)	(10)	(10)

MUSCULOSKELETAL SYSTEM

Bone	(10)	(10)	(0)	(0)	(0)	(0)
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a - Number of animals examined microscopically at site and number of animals with lesion

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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Lab: MBA

Fischer 344-Taconic RATS MALE

	untreated	vehicle	6.25%	12.5%	25%	50%
NERVOUS SYSTEM						
Brain	(10)	(10)	(0)	(0)	(0)	(0)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(0)	(0)	(0)	(0)
Lung	(10)	(10)	(0)	(0)	(0)	(0)
Nose	(10)	(10)	(0)	(0)	(0)	(0)
Trachea	(10)	(10)	(0)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM						
Eye	(10)	(10)	(0)	(0)	(0)	(0)
Harderian Gland	(10)	(10)	(0)	(0)	(0)	(0)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Urinary Bladder	(10)	(10)	(0)	(0)	(0)	(0)

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

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE 100%

Disposition Summary

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

ALIMENTARY SYSTEM

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

CARDIOVASCULAR SYSTEM

Blood Vessel	(9)
Heart	(10)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)
Adrenal Medulla	(10)
Parathyroid Gland	(10)

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

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE 100%

Pituitary Gland	(9)
Thyroid Gland	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)
Preputial Gland	(9)
Prostate	(10)
Seminal Vesicle	(10)
Testes	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)
Lymph Node	(1)
Lymph Node, Mandibular	(10)
Lymph Node, Mesenteric	(10)
Spleen	(10)
Thymus	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)
Skin	(10)
Skin, Site Of Application	(10)

MUSCULOSKELETAL SYSTEM

Bone	(10)
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a - Number of animals examined microscopically at site and number of animals with lesion

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE

100%

NERVOUS SYSTEM

Brain (10)

RESPIRATORY SYSTEM

Larynx (10)
 Lung (10)
 Nose (10)
 Trachea (10)

SPECIAL SENSES SYSTEM

Eye (10)
 Harderian Gland (10)

URINARY SYSTEM

Kidney (10)
 Urinary Bladder (10)

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

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE

untreated

vehicle

6.25%

12.5%

25%

50%

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

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

b - Primary tumors: all tumors except metastatic tumors

TDMS No. 20307 - 03

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

Date Report Requested: 07/27/2011

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E
Super)

Time Report Requested: 12:19:40

Route: SKIN APPLICATION

CAS Number: 54464-57-2

First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE

100%

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

*** 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

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

Time Report Requested: 12:19:40

Route: SKIN APPLICATION

CAS Number: 54464-57-2

First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE	untreated	vehicle	6.25%	12.5%	25%	50%
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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)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(10)	(10)	(0)	(0)	(0)	(0)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Oral Mucosa	(10)	(10)	(0)	(0)	(0)	(0)
Pancreas	(10)	(10)	(0)	(0)	(0)	(0)
Salivary Glands	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Glandular	(10)	(10)	(0)	(0)	(0)	(0)
Tongue	(10)	(10)	(0)	(0)	(0)	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(9)	(10)	(0)	(0)	(0)	(0)
Heart	(10)	(10)	(0)	(0)	(0)	(0)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)	(0)	(0)	(0)	(0)
Adrenal Medulla	(10)	(10)	(0)	(0)	(0)	(0)
Parathyroid Gland	(9)	(10)	(0)	(0)	(0)	(0)

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

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE

	untreated	vehicle	6.25%	12.5%	25%	50%
Pituitary Gland	(7)	(4)	(0)	(0)	(0)	(0)
Thyroid Gland	(10)	(10)	(0)	(0)	(0)	(0)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(9)	(10)	(0)	(0)	(0)	(0)
Ovary	(10)	(10)	(0)	(0)	(0)	(0)
Uterus	(10)	(10)	(0)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(0)	(0)	(0)	(0)
Lymph Node	(0)	(1)	(0)	(0)	(0)	(0)
Lymph Node, Mandibular	(10)	(10)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(9)	(10)	(0)	(0)	(0)	(0)
Spleen	(10)	(10)	(0)	(0)	(0)	(0)
Thymus	(10)	(10)	(0)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM						
Mammary Gland	(8)	(10)	(0)	(0)	(0)	(0)
Skin	(10)	(10)	(10)	(10)	(10)	(10)
Skin, Site Of Application	(10)	(10)	(10)	(10)	(10)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(10)	(0)	(0)	(0)	(0)

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

Test Type: 90-DAY

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CAS Number: 54464-57-2

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Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE

	untreated	vehicle	6.25%	12.5%	25%	50%
NERVOUS SYSTEM						
Brain	(10)	(10)	(0)	(0)	(0)	(0)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(0)	(0)	(0)	(0)
Lung	(10)	(10)	(0)	(0)	(0)	(0)
Nose	(10)	(10)	(0)	(0)	(0)	(0)
Trachea	(10)	(10)	(0)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM						
Ear	(1)	(0)	(0)	(0)	(0)	(0)
Eye	(10)	(10)	(0)	(0)	(0)	(0)
Harderian Gland	(10)	(10)	(0)	(0)	(0)	(0)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Urinary Bladder	(9)	(9)	(0)	(0)	(0)	(0)

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

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE 100%

Disposition Summary

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

ALIMENTARY SYSTEM

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

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)
Heart	(10)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)
Adrenal Medulla	(10)
Parathyroid Gland	(10)

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

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First Dose M/F: 12/12/06 / 12/13/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE 100%

Pituitary Gland	(10)
Thyroid Gland	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(10)
Ovary	(10)
Uterus	(10)

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

Mammary Gland	(10)
Skin	(10)
Skin, Site Of Application	(10)

MUSCULOSKELETAL SYSTEM

Bone	(10)
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a - Number of animals examined microscopically at site and number of animals with lesion

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Lab: MBA

Fischer 344-Taconic RATS FEMALE 100%

NERVOUS SYSTEM

Brain (10)

RESPIRATORY SYSTEM

Larynx (10)
 Lung (10)
 Nose (10)
 Trachea (10)

SPECIAL SENSES SYSTEM

Ear (1)
 Eye (10)
 Harderian Gland (10)

URINARY SYSTEM

Kidney (10)
 Urinary Bladder (10)

Test Type: 90-DAY

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE	untreated	vehicle	6.25%	12.5%	25%	50%
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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

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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Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE

100%

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

*** 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