

Experiment Number: 20702 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

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

Usnea Lichen
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
Time Report Requested: 12:51:12
First Dose M/F: 02/14/09 / 02/14/09
Lab: NCTR

NTP Study Number: C20702
Lock Date: 07/01/2013
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

Experiment Number: 20702 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Usnea Lichen
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
 Time Report Requested: 12:51:12
 First Dose M/F: 02/14/09 / 02/14/09
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	Control 0 PPM	USNEA 30 PPM	USNEA 60 PPM	USNEA 120 PPM	USNEA 360 PPM	USNEA 720 PPM
---------------------------------	---------------	--------------	--------------	---------------	---------------	---------------

Disposition Summary

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

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(9)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(10)	(10)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)

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

Experiment Number: 20702 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Usnea Lichen
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
 Time Report Requested: 12:51:12
 First Dose M/F: 02/14/09 / 02/14/09
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	Control 0 PPM	USNEA 30 PPM	USNEA 60 PPM	USNEA 120 PPM	USNEA 360 PPM	USNEA 720 PPM
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
GENERAL BODY SYSTEM						
Tissue NOS	(1)	(0)	(0)	(0)	(0)	(0)
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(10)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(10)	(10)
Prostate	(10)	(0)	(0)	(0)	(10)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(10)	(10)
Testes	(10)	(0)	(0)	(0)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(10)	(10)
Spleen	(10)	(0)	(0)	(0)	(10)	(10)
Thymus	(10)	(0)	(0)	(0)	(10)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Skin	(10)	(0)	(0)	(0)	(10)	(10)
MUSCULOSKELETAL SYSTEM						
Bone, Femur	(10)	(0)	(0)	(0)	(10)	(10)

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

Experiment Number: 20702 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

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

Usnea Lichen
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
Time Report Requested: 12:51:12
First Dose M/F: 02/14/09 / 02/14/09
Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	Control 0 PPM	USNEA 30 PPM	USNEA 60 PPM	USNEA 120 PPM	USNEA 360 PPM	USNEA 720 PPM
NERVOUS SYSTEM						
Brain, Brain Stem	(10)	(0)	(0)	(0)	(10)	(10)
Brain, Cerebellum	(10)	(0)	(0)	(0)	(10)	(10)
Brain, Cerebrum	(10)	(0)	(0)	(0)	(10)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(10)	(10)
Nose	(10)	(0)	(0)	(0)	(10)	(10)
Trachea	(10)	(0)	(0)	(0)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(10)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(10)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(10)

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

Experiment Number: 20702 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Usnea Lichen
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
Time Report Requested: 12:51:12
First Dose M/F: 02/14/09 / 02/14/09
Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE

Control 0 PPM

USNEA 30 PPM

USNEA 60 PPM

USNEA 120 PPM

USNEA 360 PPM

USNEA 720 PPM

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

Experiment Number: 20702 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Usnea Lichen
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
 Time Report Requested: 12:51:12
 First Dose M/F: 02/14/09 / 02/14/09
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	Control 0 PPM	USNEA 30 PPM	USNEA 60 PPM	USNEA 120 PPM	USNEA 360 PPM	USNEA 720 PPM
-----------------------------------	---------------	--------------	--------------	---------------	---------------	---------------

Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						8
Natural Death						1
Survivors						
Terminal Sacrifice	10	10	10	10	10	1
Animals Examined Microscopically	10				10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(9)
Liver	(10)	(0)	(0)	(0)	(10)	(10)
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(10)	(10)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(9)
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(8)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)

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

Experiment Number: 20702 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Usnea Lichen
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
Time Report Requested: 12:51:12
First Dose M/F: 02/14/09 / 02/14/09
Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	Control 0 PPM	USNEA 30 PPM	USNEA 60 PPM	USNEA 120 PPM	USNEA 360 PPM	USNEA 720 PPM
Parathyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(9)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(10)	(10)
Ovary	(10)	(0)	(0)	(0)	(10)	(10)
Uterus	(10)	(0)	(0)	(0)	(10)	(9)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(9)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(10)	(9)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(10)	(9)
Spleen	(10)	(0)	(0)	(0)	(10)	(10)
Thymus	(10)	(0)	(0)	(0)	(10)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(10)	(9)
Skin	(10)	(0)	(0)	(0)	(10)	(10)
MUSCULOSKELETAL SYSTEM						
Bone, Femur	(10)	(0)	(0)	(0)	(10)	(10)

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

Experiment Number: 20702 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

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

Usnea Lichen
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
Time Report Requested: 12:51:12
First Dose M/F: 02/14/09 / 02/14/09
Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	Control 0 PPM	USNEA 30 PPM	USNEA 60 PPM	USNEA 120 PPM	USNEA 360 PPM	USNEA 720 PPM
NERVOUS SYSTEM						
Brain, Brain Stem	(10)	(0)	(0)	(0)	(10)	(10)
Brain, Cerebellum	(10)	(0)	(0)	(0)	(10)	(10)
Brain, Cerebrum	(10)	(0)	(0)	(0)	(10)	(10)
<hr/>						
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(10)	(10)
Nose	(10)	(0)	(0)	(0)	(10)	(9)
Trachea	(10)	(0)	(0)	(0)	(10)	(10)
<hr/>						
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(10)	(9)
Harderian Gland	(10)	(0)	(0)	(0)	(10)	(10)
<hr/>						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(9)

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

Experiment Number: 20702 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Usnea Lichen
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020
Time Report Requested: 12:51:12
First Dose M/F: 02/14/09 / 02/14/09
Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE

Control 0 PPM

USNEA 30 PPM

USNEA 60 PPM

USNEA 120 PPM

USNEA 360 PPM

USNEA 720 PPM

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