

TDMS No. 20302 - 04

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)
WITH AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 11/17/2006

Test Type: 90-DAY

ALPHA-PINENE

Time Report Requested: 07:28:41

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 80-56-8

First Dose M/F: 03/28/05 / 03/28/05

Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S. - LIEUALLEN, W.

Lab: BNW

F1_M3

C Number: C20302
Lock Date: 12/07/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL

a - Number of animals examined microscopically at site and number of animals with lesion
b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: 90-DAY

ALPHA-PINENE

Time Report Reqsted: 07:28:41

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 80-56-8

First Dose M/F: 03/28/05 / 03/28/05

Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S. - LIEUALLEN, W.

Lab: BNW

B6C3F1 MICE MALE	control	25 ppm	50 ppm	100 ppm	200 ppm	400 ppm
------------------	---------	--------	--------	---------	---------	---------

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

Gallbladder	(9)	(0)	(0)	(0)	(0)	(7)
Infiltration Cellular, Polymorphonuclear						1 [2.0]
Pancreas	(10)	(0)	(0)	(1)	(0)	(10)
Duct, Cyst				1 [3.0]		

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Hypertrophy	2 [2.0]					

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOPOIETIC SYSTEM

None

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: 90-DAY

ALPHA-PINENE

Time Report Reqsted: 07:28:41

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 80-56-8

First Dose M/F: 03/28/05 / 03/28/05

Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S. - LIEUALLEN, W.

Lab: BNW

B6C3F1 MICE MALE	control	25 ppm	50 ppm	100 ppm	200 ppm	400 ppm
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Dilatation			1 [1.0]	1 [1.0]		
Nephropathy			1 [1.0]	1 [1.0]		1 [1.0]
Urinary Bladder	(10)	(10)	(10)	(10)	(10)	(10)
Transitional Epithelium, Hyperplasia				7 [1.0]	10 [2.0]	10 [2.5]

*** END OF MALE ***

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: 90-DAY

ALPHA-PINENE

Time Report Reqsted: 07:28:41

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 80-56-8

First Dose M/F: 03/28/05 / 03/28/05

Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S. - LIEUALLEN, W.

Lab: BNW

B6C3F1 MICE FEMALE	control	25 ppm	50 ppm	100 ppm	200 ppm	400 ppm
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						
Stomach, Glandular Mineralization	(10)	(0)	(0)	(0)	(0)	(10) 1 [1.0]
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
None						
INTEGUMENTARY SYSTEM						

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: 90-DAY

ALPHA-PINENE

Time Report Reqsted: 07:28:41

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 80-56-8

First Dose M/F: 03/28/05 / 03/28/05

Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S. - LIEUALLEN, W.

Lab: BNW

B6C3F1 MICE FEMALE	control	25 ppm	50 ppm	100 ppm	200 ppm	400 ppm
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Lung Alveolar Epithelium, Hyperplasia	(10)	(0)	(0)	(0)	(0)	(10) 1 [4.0]
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney Nephropathy	(10) 2 [1.0]	(10)	(10) 1 [1.0]	(10)	(10)	(10) 1 [1.0]
Urinary Bladder Transitional Epithelium, Hyperplasia	(10)	(10)	(10)	(10) 6 [1.0]	(10) 10 [1.6]	(10) 10 [2.2]

*** END OF REPORT ***