

TDMS No. 20301 - 03

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

Date Report Requested: 05/19/2011

Test Type: 90-DAY

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

F1_RD

C Number: C20301

Lock Date: 12/23/2009

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC

Removal Date Range: ALL

Treatment Groups: Include 001 0 PPM

Include 002 625 PPM

Include 003 1250 PPM

Include 004 2500 PPM

Include 005 5000 PPM

Include 006 10000 PPM

Include 007 0 PPM

Include 008 625 PPM

Include 009 1250 PPM

Include 010 2500 PPM

Include 011 5000 PPM

Include 012 10000 PPM

Study Gender: Both

TDMSE Version: 2.4.0.0_003

PWG Approval Date: NONE

Test Type: 90-DAY

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE	0 PPM	625 PPM	1250 PPM	2500 PPM	5000 PPM	10000 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

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	9 [1.0]					9 [1.0]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Glands, Ectasia, Focal	1 [1.0]					1 [1.0]
Tongue	(10)	(0)	(0)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	4 [1.0]					4 [1.0]
Infiltration Cellular, Histiocyte, Focal	2 [1.0]					1 [1.0]

ENDOCRINE 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

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE	0 PPM	625 PPM	1250 PPM	2500 PPM	5000 PPM	10000 PPM
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(9)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	2 [1.0]					
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy						1 [2.0]
Metaplasia, Cartilagenous, Focal						1 [1.0]

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Histiocyte						1 [3.0]
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(7)	(0)	(0)	(0)	(0)	(9)
---------------	-----	-----	-----	-----	-----	-----

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

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE	0 PPM	625 PPM	1250 PPM	2500 PPM	5000 PPM	10000 PPM
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage	1 [1.0]					2 [1.0]
Infiltration Cellular, Histiocyte	1 [1.0]					2 [1.0]
Inflammation, Chronic Active	2 [1.0]					3 [1.7]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Pleura	(1)	(0)	(0)	(0)	(0)	(0)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation	1 [1.0]					
Nephropathy	4 [1.3]					4 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS MALE

0 PPM

625 PPM

1250 PPM

2500 PPM

5000 PPM

10000 PPM

*** 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

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE	0 PPM	625 PPM	1250 PPM	2500 PPM	5000 PPM	10000 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

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Hepatodiaphragmatic Nodule Inflammation, Chronic	10 [1.2]					9 [1.0]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Acinus, Atrophy	1 [1.0]					1 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia, Basal Cell	1 [1.0]					
Tongue	(10)	(0)	(0)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	2 [1.0]					1 [1.0]

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

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE	0 PPM	625 PPM	1250 PPM	2500 PPM	5000 PPM	10000 PPM
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	1 [1.0]					
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Cyst, Focal	1 [3.0]					
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
Bilateral, Hydrometra	2 [2.0]					
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Ectopic Tissue	1					
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)

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

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE	0 PPM	625 PPM	1250 PPM	2500 PPM	5000 PPM	10000 PPM
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Histiocyte	1 [1.0]					1 [1.0]
Inflammation, Chronic Active	1 [1.0]					1 [2.0]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	1 [2.0]					1 [1.0]
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	1 [1.0]					
Pelvis, Dilatation, Focal	1 [2.0]					
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

p-Toluenesulfonamide

Time Report Requested: 12:43:46

Route: DOSED FEED

CAS Number: 70-55-3

First Dose M/F: 10/17/06 / 10/18/06

Species/Strain: RATS/F344/N Tac

Lab: MBA

Fischer 344-Taconic RATS FEMALE	0 PPM	625 PPM	1250 PPM	2500 PPM	5000 PPM	10000 PPM
---------------------------------	-------	---------	----------	----------	----------	-----------

*** END OF REPORT ***

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)