

Experiment Number: 20605 - 99

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

Date Report Requested: 05/13/2019

Test Type: SPECIAL STUDY

Gum Guggul Extract

Time Report Requested: 15:00:28

Route: GAVAGE

CAS Number: GUMGUGGULEXT

First Dose M/F: 07/23/09 / 07/24/09

Species/Strain: RATS/HSD

Lab: BAT

NTP Study Number: C20605
Lock Date: Not Entered.
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

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Harlan Sprague Dawley RATS MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
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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	2	1	2		10

ALIMENTARY SYSTEM

Liver	(10)	(0)	(0)	(0)	(0)	(10)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(0)	(2)	(0)	(0)	(0)	(0)
Mineralization		2 [1.5]				

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(1)	(0)	(0)	(10)
Cardiomyopathy	1 [1.0]		1 [2.0]			

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Hypertrophy	1 [1.0]					4 [1.3]
Vacuolization Cytoplasmic						2 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell	1 [1.0]					

GENERAL BODY 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)

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None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Degeneration	1 [1.0]					
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(0)	(0)	(0)	(2)	(0)	(0)
Hemorrhage				2 [1.5]		
Inflammation, Chronic				1 [3.0]		

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

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SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Developmental Malformation						1 [3.0]
Nephropathy	3 [1.0]					6 [1.0]

*** END OF MALE ***

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Harlan Sprague Dawley RATS FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
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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	3	1	3	2	10

ALIMENTARY SYSTEM

Liver	(10)	(1)	(0)	(0)	(0)	(10)
Fatty Change						1 [1.0]
Fibrosis		1 [2.0]				
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell	1 [1.0]					
Heart	(10)	(0)	(0)	(0)	(0)	(10)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Hypertrophy	1 [1.0]					4 [1.0]
Vacuolization Cytoplasmic	2 [1.0]					1 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(8)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

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

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GENITAL SYSTEM

Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia, Cystic	1 [1.0]					3 [2.0]

HEMATOPOIETIC SYSTEM

Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(0)	(2)	(1)	(3)	(2)	(1)
Hemorrhage		2 [2.5]	1 [1.0]	3 [1.3]	2 [3.0]	1 [4.0]
Inflammation, Chronic		1 [4.0]			1 [4.0]	1 [4.0]

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

Skeletal Muscle Degeneration	(0)	(1) 1 [1.0]	(0)	(0)	(0)	(0)
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NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

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0 mg/kg

62.5 mg/kg

125 mg/kg

250 mg/kg

500 mg/kg

1000 mg/kg

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

Kidney

(10)

(0)

(0)

(0)

(0)

(10)

Nephropathy

4 [1.0]

1 [1.0]

*** 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)