

**Experiment Number:** 20605 - 02  
**Test Type:** 14-WEEK  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Gum guggul extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 04/20/2012  
**Time Report Requested:** 11:28:04  
**First Dose M/F:** 07/31/09 / 07/30/09  
**Lab:** BAT

F1\_M3

**NTP Study Number:** C20605  
**Lock Date:** 11/04/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** NONE

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Test Type: 14-WEEK

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Date Report Requested: 04/20/2012

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First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 mg/kg</b>	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
		2	2	2	2	2	2	2	2	2	2	2	2	2	2		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	1	1	1	1	1	1		
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
<b>* TOTALS</b>																	

**ALIMENTARY SYSTEM**

Esophagus																	<b>10</b>
Gallbladder																	<b>10</b>
Intestine Large, Cecum																	<b>10</b>
Intestine Large, Colon																	<b>10</b>
Intestine Large, Rectum																	<b>10</b>
Intestine Small, Duodenum																	<b>10</b>
Intestine Small, Ileum																	<b>10</b>
Intestine Small, Jejunum																	<b>10</b>
Liver																	<b>10</b>
Infiltration Cellular, Mixed Cell										1	1						<b>2 1.0</b>
Pancreas																	<b>10</b>
Salivary Glands																	<b>10</b>
Stomach, Forestomach																	<b>10</b>
Stomach, Glandular																	<b>10</b>

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
0 mg/kg	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

\* TOTALS

Blood Vessel + + + + + + + + + + 10

Heart + + + + + + + + + + 10

ENDOCRINE SYSTEM

Adrenal Cortex + + + + + + + + + + 10

Adrenal Medulla + + + + + + + + + + 10

Islets, Pancreatic + + + + + + + + + + 10

Parathyroid Gland + M + + + + + + + + 9

Pituitary Gland + + + + + + + + + + 10

Thyroid Gland + + + + + + + + + + 10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis + + + + + + + + + + 10

Preputial Gland + + + + + + + + + + 10

Prostate + + + + + + + + + + 10

Seminal Vesicle + + + + + + + + + + 10

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		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
0 mg/kg	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		
		<b>* TOTALS</b>																
Testes								+	+	+	+	+	+	+	+	+	<b>10</b>	
<b>HEMATOPOIETIC SYSTEM</b>																		
Bone Marrow								+	+	+	+	+	+	+	+	+	<b>10</b>	
Lymph Node, Mandibular								+	+	+	+	+	+	+	+	+	<b>10</b>	
Lymph Node, Mesenteric								+	+	+	+	+	+	+	+	+	<b>10</b>	
Spleen								+	+	+	+	+	+	+	+	+	<b>10</b>	
Thymus								+	+	+	+	+	+	+	+	+	<b>10</b>	
<b>INTEGUMENTARY SYSTEM</b>																		
Mammary Gland								M	M	M	M	M	M	M	M	M	<b>0</b>	
Skin								+	+	+	+	+	+	+	+	+	<b>10</b>	
<b>MUSCULOSKELETAL SYSTEM</b>																		
Bone								+	+	+	+	+	+	+	+	+	<b>10</b>	
<b>NERVOUS SYSTEM</b>																		
Brain								+	+	+	+	+	+	+	+	+	<b>10</b>	
<b>RESPIRATORY SYSTEM</b>																		
Lung								+	+	+	+	+	+	+	+	+	<b>10</b>	

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		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
0 mg/kg	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		
<b>* TOTALS</b>																		
Nose										+	+	+	+	+	+	+	+	
Trachea										+	+	+	+	+	+	+	+	
<b>SPECIAL SENSES SYSTEM</b>																		
Eye										+	+	+	+	+	+	+	+	
<b>URINARY SYSTEM</b>																		
Kidney										+	+	+	+	+	+	+	+	
Nephropathy												1						
Urinary Bladder										+	+	+	+	+	+	+	+	

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Lab: BAT

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	
<b>31 mg/kg</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3	3	4	4	4	4	4	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
															<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin

+

1

**MUSCULOSKELETAL SYSTEM**

NONE

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+ .. Tissue examined microscopically

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Lab: BAT

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
<b>31 mg/kg</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3	3	4	4	4	4	4		
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	<b>* TOTALS</b>

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
250 mg/kg	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
<b>* TOTALS</b>																		

**ALIMENTARY SYSTEM**

Esophagus																			<b>10</b>
Gallbladder																			<b>10</b>
Intestine Large, Cecum																			<b>10</b>
Intestine Large, Colon																			<b>10</b>
Intestine Large, Rectum																			<b>10</b>
Intestine Small, Duodenum																			<b>10</b>
Intestine Small, Ileum																			<b>10</b>
Intestine Small, Jejunum																			<b>10</b>
Liver																			<b>10</b>
Infiltration Cellular, Mixed Cell																			<b>4 1.0</b>
Centrilobular, Hepatocyte, Vacuolization																			<b>1 2.0</b>
Cytoplasmic, Diffuse																			
Pancreas																			<b>10</b>
Salivary Glands																			<b>10</b>
Stomach, Forestomach																			<b>10</b>
Hyperkeratosis, Focal																			<b>1 1.0</b>
Hyperplasia, Focal																			<b>1 1.0</b>

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<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>250 mg/kg</b>	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0
<b>* TOTALS</b>																	

Stomach, Glandular

+ + + + + + + + + +

10

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+ + + + + + + + + +

10

Heart

+ + + + + + + + + +

10

**ENDOCRINE SYSTEM**

Adrenal Cortex

+ + + + + + + + + +

10

Adrenal Medulla

+ + + + + + + + + +

10

Islets, Pancreatic

+ + + + + + + + + +

10

Parathyroid Gland

+ + + + + + + + + +

10

Pituitary Gland

+ + + + + + + + + +

10

Thyroid Gland

+ + + + + + + + + +

10

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis

+ + + + + + + + + +

10

Preputial Gland

+ + + + + + + + + +

10

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B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
250 mg/kg	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0	
<b>* TOTALS</b>																		
Prostate								+	+	+	+	+	+	+	+	+	10	
Seminal Vesicle								+	+	+	+	+	+	+	+	+	10	
Testes								+	+	+	+	+	+	+	+	+	10	
<b>HEMATOPOIETIC SYSTEM</b>																		
Bone Marrow								+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mandibular								+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mesenteric								+	+	+	+	+	+	+	+	+	10	
Spleen								+	+	+	+	+	+	+	+	+	10	
Thymus								+	+	+	+	+	+	+	+	+	10	
<b>INTEGUMENTARY SYSTEM</b>																		
Mammary Gland								M	M	M	M	M	M	M	M	M	0	
Skin								+	+	+	+	+	+	+	+	+	10	
<b>MUSCULOSKELETAL SYSTEM</b>																		
Bone								+	+	+	+	+	+	+	+	+	10	
<b>NERVOUS SYSTEM</b>																		
Brain								+	+	+	+	+	+	+	+	+	10	

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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
<b>250 mg/kg</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>																	

**RESPIRATORY SYSTEM**

Lung																	<b>10</b>
Nose																	<b>10</b>
Trachea																	<b>10</b>

**SPECIAL SENSES SYSTEM**

Eye																	<b>10</b>
-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

**URINARY SYSTEM**

Kidney																	<b>10</b>
Urinary Bladder																	<b>10</b>

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 mg/kg</b>	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
		9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
<b>* TOTALS</b>																	

**ALIMENTARY SYSTEM**

Esophagus																	<b>10</b>
Gallbladder																	<b>10</b>
Intestine Large, Cecum																	<b>10</b>
Intestine Large, Colon																	<b>10</b>
Intestine Large, Rectum																	<b>10</b>
Intestine Small, Duodenum																	<b>10</b>
Intestine Small, Ileum																	<b>10</b>
Intestine Small, Jejunum																	<b>10</b>
Liver																	<b>10</b>
Infiltration Cellular, Mixed Cell																	<b>8 1.0</b>
Pancreas																	<b>10</b>
Salivary Glands																	<b>10</b>
Stomach, Forestomach																	<b>10</b>
Stomach, Glandular																	<b>10</b>

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

B6C3F1 MICE FEMALE	DAY ON TEST															* TOTALS
	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	
0 mg/kg	ANIMAL ID															
	0 0 9 1	0 0 9 2	0 0 9 3	0 0 9 4	0 0 9 5	0 0 9 6	0 0 9 7	0 0 9 8	0 0 9 9	0 0 9 0	0 0 9 1	0 0 9 2	0 0 9 3	0 0 9 4	0 0 9 5	
Blood Vessel																10
Heart																10
<b>ENDOCRINE SYSTEM</b>																
Adrenal Cortex																10
Vacuolization Cytoplasmic																1 1.0
Adrenal Medulla																10
Islets, Pancreatic																10
Parathyroid Gland																10
Pituitary Gland																10
Thyroid Gland																10
<b>GENERAL BODY SYSTEM</b>																
NONE																
<b>GENITAL SYSTEM</b>																
Clitoral Gland																10
Ovary																10
Uterus																10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 mg/kg</b>	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
		2	2	2	2	2	2	2	2	2	2	2	2	2	2		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	1	1	1	1	1	1		
		9	9	9	9	9	9	9	9	0	0	0	0	0	0		
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
<b>* TOTALS</b>																	

**HEMATOPOIETIC SYSTEM**

Bone Marrow																	<b>10</b>
Lymph Node, Mandibular																	<b>10</b>
Lymph Node, Mesenteric																	<b>10</b>
Spleen																	<b>10</b>
Thymus																	<b>10</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland																	<b>10</b>
Skin																	<b>10</b>

**MUSCULOSKELETAL SYSTEM**

Bone																	<b>10</b>
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

**NERVOUS SYSTEM**

Brain																	<b>10</b>
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

**RESPIRATORY SYSTEM**

Lung																	<b>10</b>
Infiltration Cellular, Histiocyte															1		<b>1 1.0</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

B6C3F1 MICE FEMALE 0 mg/kg	DAY ON TEST															* TOTALS
	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	
Nose									+	+	+	+	+	+	+	10
Trachea									+	+	+	+	+	+	+	10
<b>SPECIAL SENSES SYSTEM</b>																
Eye									+	+	+	+	+	+	+	10
<b>URINARY SYSTEM</b>																
Kidney									+	+	+	+	+	+	+	10
Urinary Bladder									+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>250 mg/kg</b>	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
<b>* TOTALS</b>																		

**ALIMENTARY SYSTEM**

Esophagus																		<b>10</b>
Gallbladder																		<b>10</b>
Intestine Large, Cecum																		<b>10</b>
Intestine Large, Colon																		<b>10</b>
Intestine Large, Rectum																		<b>10</b>
Intestine Small, Duodenum																		<b>10</b>
Intestine Small, Ileum																		<b>10</b>
Intestine Small, Jejunum																		<b>10</b>
Liver																		<b>10</b>
Infiltration Cellular, Mixed Cell																		<b>8 1.0</b>
Pancreas																		<b>10</b>
Salivary Glands																		<b>10</b>
Stomach, Forestomach																		<b>10</b>
Stomach, Glandular																		<b>10</b>

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

B6C3F1 MICE FEMALE	DAY ON TEST															* TOTALS
	0092	0092	0092	0092	0092	0092	0092	0092	0092	0092	0092	0092	0092	0092	0092	
250 mg/kg	ANIMAL ID															
	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	

Blood Vessel																	10
Heart																	10

**ENDOCRINE SYSTEM**

Adrenal Cortex																	10
Adrenal Medulla																	10
Islets, Pancreatic																	10
Parathyroid Gland																	7
Pituitary Gland																	10
Thyroid Gland																	10

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland																	10
Ovary																	10
Uterus																	10

**HEMATOPOIETIC SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

B6C3F1 MICE FEMALE	DAY ON TEST															* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
250 mg/kg	ANIMAL ID															* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bone Marrow	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10
Lymph Node, Mandibular	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	10
Lymph Node, Mesenteric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Spleen	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10
Thymus	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	10
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
<b>INTEGUMENTARY SYSTEM</b>																
Mammary Gland																10
Skin																10
<b>MUSCULOSKELETAL SYSTEM</b>																
Bone																10
<b>NERVOUS SYSTEM</b>																
Brain																10
<b>RESPIRATORY SYSTEM</b>																
Lung																10
Nose																10
Trachea																10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Gum guggul extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

Time Report Requested: 11:28:04

First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
<b>250 mg/kg</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>																	

**SPECIAL SENSES SYSTEM**

Eye																	<b>10</b>
-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

**URINARY SYSTEM**

Kidney																	<b>10</b>
Renal Tubule, Regeneration																	<b>1 1.0</b>

Urinary Bladder																	<b>10</b>
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\*\*\* END OF REPORT \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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