

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

P04: NEOPLASMS 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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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 MALE	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 mg/kg		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	
	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	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	* TOTALS

ALIMENTARY SYSTEM

Esophagus																		10
Gallbladder																		10
Intestine Large, Cecum																		10
Intestine Large, Colon																		10
Intestine Large, Rectum																		10
Intestine Small, Duodenum																		10
Intestine Small, Ileum																		10
Intestine Small, Jejunum																		10
Liver																		10
Pancreas																		10
Salivary Glands																		10
Stomach, Forestomach																		10
Stomach, Glandular																		10

CARDIOVASCULAR SYSTEM

Blood Vessel																		10
--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

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Lab: BAT

B6C3F1 MICE MALE	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															* TOTALS	
	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4		0 0 0 0 5
Heart																	10
ENDOCRINE SYSTEM																	
Adrenal Cortex																	10
Adrenal Medulla																	10
Islets, Pancreatic																	10
Parathyroid Gland																	9
Pituitary Gland																	10
Thyroid Gland																	10
GENERAL BODY SYSTEM																	
NONE																	
GENITAL SYSTEM																	
Epididymis																	10
Preputial Gland																	10
Prostate																	10
Seminal Vesicle																	10
Testes																	10

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Time Report Requested: 11:28:04

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

Lab: BAT

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	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
* TOTALS																	

HEMATOPOIETIC SYSTEM

Bone Marrow																	10
Lymph Node, Mandibular																	10
Lymph Node, Mesenteric																	10
Spleen																	10
Thymus																	10

INTEGUMENTARY SYSTEM

Mammary Gland																	0
Skin																	10

MUSCULOSKELETAL SYSTEM

Bone																	10
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

NERVOUS SYSTEM

Brain																	10
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

RESPIRATORY SYSTEM

Lung																	10
Nose																	10

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Time Report Requested: 11:28:04

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

Lab: BAT

B6C3F1 MICE MALE	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
0 mg/kg	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
		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																	

Trachea																		10
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

SPECIAL SENSES SYSTEM

Eye																		10
-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

URINARY SYSTEM

Kidney																		10
--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

Urinary Bladder																		10
-----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

SYSTEMIC LESIONS

Multiple Organ																		10
----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

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Lab: BAT

DAY ON TEST

B6C3F1 MICE MALE

15.5 mg/kg

ANIMAL ID

*** TOTALS**

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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Lab: BAT

DAY ON TEST

B6C3F1 MICE MALE

15.5 mg/kg

ANIMAL ID

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

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+ .. Tissue examined microscopically
X .. Lesion present
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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	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	
31 mg/kg	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	4	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
* TOTALS																	

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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Lab: BAT

B6C3F1 MICE MALE	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	
31 mg/kg	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
* TOTALS																

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

+

1

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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

DAY ON TEST

B6C3F1 MICE MALE

62.5 mg/kg

ANIMAL ID

*** TOTALS**

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

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CAS Number: GUMGUGGULEXT

Date Report Requested: 04/20/2012

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

Lab: BAT

DAY ON TEST

B6C3F1 MICE MALE

62.5 mg/kg

ANIMAL ID

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
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First Dose M/F: 07/31/09 / 07/30/09

Lab: BAT

DAY ON TEST

B6C3F1 MICE MALE

125 mg/kg

ANIMAL ID

*** TOTALS**

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

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

Lab: BAT

DAY ON TEST

B6C3F1 MICE MALE

125 mg/kg

ANIMAL ID

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
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Lab: BAT

B6C3F1 MICE MALE	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
250 mg/kg	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
* TOTALS																	

ALIMENTARY SYSTEM

Esophagus																		10
Gallbladder																		10
Intestine Large, Cecum																		10
Intestine Large, Colon																		10
Intestine Large, Rectum																		10
Intestine Small, Duodenum																		10
Intestine Small, Ileum																		10
Intestine Small, Jejunum																		10
Liver																		10
Pancreas																		10
Salivary Glands																		10
Stomach, Forestomach																		10
Stomach, Glandular																		10

CARDIOVASCULAR SYSTEM

Blood Vessel																		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	0
		9	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	
		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	0	0	
* TOTALS																			
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	
Prostate								+	+	+	+	+	+	+	+	+	+	10	
Seminal Vesicle								+	+	+	+	+	+	+	+	+	+	10	
Testes								+	+	+	+	+	+	+	+	+	+	10	

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Lab: BAT

B6C3F1 MICE MALE	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	
250 mg/kg		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	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	
		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		
* TOTALS																		

HEMATOPOIETIC SYSTEM

Bone Marrow																		10
Lymph Node, Mandibular																		10
Lymph Node, Mesenteric																		10
Spleen																		10
Thymus																		10

INTEGUMENTARY SYSTEM

Mammary Gland																		0
Skin																		10

MUSCULOSKELETAL SYSTEM

Bone																		10
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

NERVOUS SYSTEM

Brain																		10
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

RESPIRATORY SYSTEM

Lung																		10
Nose																		10

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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 MALE 250 mg/kg	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	* TOTALS
	ANIMAL ID	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	
		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	8	9	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0	
Trachea								+	+	+	+	+	+	+	+	+	10	
SPECIAL SENSES SYSTEM																		
Eye								+	+	+	+	+	+	+	+	+	10	
URINARY SYSTEM																		
Kidney								+	+	+	+	+	+	+	+	+	10	
Urinary Bladder								+	+	+	+	+	+	+	+	+	10	
SYSTEMIC LESIONS																		
Multiple Organ								+	+	+	+	+	+	+	+	+	10	

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 mg/kg	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	1	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	* TOTALS	

ALIMENTARY SYSTEM

Esophagus																		10
Gallbladder																		10
Intestine Large, Cecum																		10
Intestine Large, Colon																		10
Intestine Large, Rectum																		10
Intestine Small, Duodenum																		10
Intestine Small, Ileum																		10
Intestine Small, Jejunum																		10
Liver																		10
Pancreas																		10
Salivary Glands																		10
Stomach, Forestomach																		10
Stomach, Glandular																		10

CARDIOVASCULAR SYSTEM

Blood Vessel																		10
--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	* TOTALS
	ANIMAL ID	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	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		
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																		
Clitoral Gland								+	+	+	+	+	+	+	+	+	10	
Ovary								+	+	+	+	+	+	+	+	+	10	
Teratoma Benign										X							1	
Uterus								+	+	+	+	+	+	+	+	+	10	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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															* TOTALS
	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	
Bone Marrow																10
Lymph Node, Mandibular																10
Lymph Node, Mesenteric																10
Spleen																10
Thymus																10
INTEGUMENTARY SYSTEM																
Mammary Gland																10
Skin																10
MUSCULOSKELETAL SYSTEM																
Bone																10
NERVOUS SYSTEM																
Brain																10
RESPIRATORY SYSTEM																
Lung																10
Nose																10
Trachea																10

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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	0	0	0	0	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	
0 mg/kg	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	1	1	1	1	1	
		9	9	9	9	9	9	9	9	9	0	0	0	0	0	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
															* TOTALS	

SPECIAL SENSES SYSTEM

Eye																	10
-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

URINARY SYSTEM

Kidney																	10
--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

Urinary Bladder																	10
-----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

SYSTEMIC LESIONS

Multiple Organ																	10
----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

15.5 mg/kg

ANIMAL ID

*** TOTALS**

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

15.5 mg/kg

ANIMAL ID

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

31 mg/kg

ANIMAL ID

*** TOTALS**

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

31 mg/kg

ANIMAL ID

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

62.5 mg/kg

ANIMAL ID

*** TOTALS**

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

62.5 mg/kg

ANIMAL ID

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

125 mg/kg

ANIMAL ID

*** TOTALS**

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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

DAY ON TEST

B6C3F1 MICE FEMALE

125 mg/kg

ANIMAL ID

*** TOTALS**

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
250 mg/kg	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	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	0	* TOTALS

ALIMENTARY SYSTEM

Esophagus																		10
Gallbladder																		10
Intestine Large, Cecum																		10
Intestine Large, Colon																		10
Intestine Large, Rectum																		10
Intestine Small, Duodenum																		10
Intestine Small, Ileum																		10
Intestine Small, Jejunum																		10
Liver																		10
Pancreas																		10
Salivary Glands																		10
Stomach, Forestomach																		10
Stomach, Glandular																		10

CARDIOVASCULAR SYSTEM

Blood Vessel																		10
--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	250 mg/kg	ANIMAL ID	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	2	2
		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	1	1
		6	6	6	6	7	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		
* TOTALS																		
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																		
Bone Marrow																		10

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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 250 mg/kg	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	* TOTALS
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lymph Node, Mandibular																		10
Lymph Node, Mesenteric																		10
Spleen																		10
Thymus																		10
INTEGUMENTARY SYSTEM																		
Mammary Gland																		10
Skin																		10
MUSCULOSKELETAL SYSTEM																		
Bone																		10
NERVOUS SYSTEM																		
Brain																		10
RESPIRATORY SYSTEM																		
Lung																		10
Nose																		10
Trachea																		10
SPECIAL SENSES SYSTEM																		

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

Experiment Number: 20605 - 02

Test Type: 14-WEEK

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P04: NEOPLASMS 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 250 mg/kg	DAY ON TEST		0 0 0 0 0 0 0 0 0 0 0 0 0 0														* TOTALS	
	ANIMAL ID		0 0 0 0 0 0 0 0 0 0 0 0 0 0															
Eye	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	9 2	10
URINARY SYSTEM																		
Kidney	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	10
Urinary Bladder	6 6	6 7	6 8	6 9	7 0	7 1	7 2	7 3	7 4	7 5	7 6	7 7	7 8	7 9	7 0	7 1	7 2	10
SYSTEMIC LESIONS																		
Multiple Organ	+														10			

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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