

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

F1_M3

C Number: IM20701
Lock Date: 05/14/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Female
TDMSE Version: 2.4.1.0_004
PWG Approval Date: NONE

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 297

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lymph Node, Mesenteric
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Gut Associated Lymphoid Tissue
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INSUFFICIENT TISSUE

Popliteal Lymph Node

OBSERVATIONS

Lung	Perivascular	Infiltration Cellular	Minimal
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TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 298

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

GALT

Note: Jejunum-Peyers patch (data above). Ileum-Peyers patch present, with no significant findings.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 299

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Cecum
Intestine Small, Jejunum
Lymph Node, Mesenteric
Thymus

Adrenal Medulla
Intestine Large, Colon
Kidney
Spleen

Bone Marrow
Intestine Small, Duodenum
Liver
Stomach, Forestomach

Gut Associated Lymphoid Tissue
Intestine Small, Ileum
Lung
Stomach, Glandular

MISSING

Bronchial Associated Lymphoid
Tissue

Intestine Large, Rectum

INSUFFICIENT TISSUE

Popliteal Lymph Node

OBSERVATIONS

GALT

Note: Jejunum-Peyers patch (data above). Ileum-Peyers patch present, with no significant findings.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 300

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

GALT

Note: Jejunum-Peyers patch present with no significant findings. Ileum-Peyers patch present, with no significant findings.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 301

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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INSUFFICIENT TISSUE

Popliteal Lymph Node

OBSERVATIONS

GALT

Note: Ileum-Peyers patch present with no significant findings. Jejunum-Peyers patch present, but insufficient lymphoid tissue for enhanced histopath evaluation.

Spleen	Red Pulp	Increased Number	Pig Macrophag, Minimal
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TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 302

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Cecum
Intestine Small, Jejunum
Lymph Node, Mesenteric
Thymus

Adrenal Medulla
Intestine Large, Colon
Kidney
Spleen

Bone Marrow
Intestine Small, Duodenum
Liver
Stomach, Forestomach

Gut Associated Lymphoid Tissue
Intestine Small, Ileum
Lung
Stomach, Glandular

MISSING

Bronchial Associated Lymphoid
Tissue

Intestine Large, Rectum

INSUFFICIENT TISSUE

Popliteal Lymph Node

OBSERVATIONS

GALT

Note: Jejunum-Peyers patch present with no significant findings.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 303

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Popliteal Lymph Node	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

GALT

Note: Ileum-Peyers patch present with no significant findings.

Spleen

Red Pulp

Increased Number

Pig Macrophag, Minimal

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 304

TRT#: 1

SEX: Female

DAY ON TEST: 29

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

GALT

Note: Cecum-Cecal patch present but insufficient tissue for adequate enhanced histopath evaluation.

Thymus

Note: TWO 300um PSEUDOCYSTS - ARTIFACT.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 305

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Liver	Lung	Lymph Node, Mesenteric
Popliteal Lymph Node	Spleen	Stomach, Forestomach	Stomach, Glandular

MISSING

Bronchial Associated Lymphoid Tissue	Gut Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

Thymus	Cyst
Note: 100um, cortex	

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 306

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

Kidney	Infiltration Cellular	Minimal
Note: Kidney, Interstitium, CM jxn, infiltrating cellular, min		
Pop Lymph Node		
Note: Both popliteal LN present.		

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 307

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Spleen	Stomach, Forestomach
Stomach, Glandular			

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

Bone Marrow

Note: OFF CENTER SECTIONING; ENOUGH BONE MARROW TO EVALUATE, BUT MOSTLY CORTICAL BONE.

GALT

Note: Ileum-Peyers patch present with data above. Jejunum Peyers patch present with no significant findings (small sample).

Lym Node Mesen

Note: SUBOPTIMAL SAMPLE, BUT ENOUGH PRESENT TO EVALUATE.

Popliteal Lymph Node

Medull Sinuses, Subcap Sinuses, Trans
Sinuses

Increased Number

Neutrophil, Minimal

Note: Suboptimal sample but enough present to evaluate.

Thymus

Cyst

Note: Cyst-200um; CORTEX

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 308

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Liver	Lung	Lymph Node, Mesenteric
Popliteal Lymph Node	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

Bone Marrow		Increased Number	Adipocyte, Minimal
Gut Associated Lymphoid Tissue	Interfol area	Increased Size	Minimal

Note: Duodenal GALT present with data above with increased apoptotic cells in subepithelial dome. Only incidence of duodenal GALT in all animals, all groups.

Lym Node Mesen

Note: SUBOPTIMAL SAMPLE, BUT ENOUGH PRESENT TO EVALUATE.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 309

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

GALT

Note: Ileum-Peyers patch present with no significant findings.

Lung

Perivascular

Infiltration Cellular

Minimal

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 310

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal Medulla

Bone Marrow

Gut Associated Lymphoid Tissue

Intestine Large, Cecum

Intestine Large, Colon

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Kidney

Liver

Lung

Lymph Node, Mesenteric

Popliteal Lymph Node

Spleen

Stomach, Forestomach

Stomach, Glandular

Thymus

MISSING

Bronchial Associated Lymphoid
Tissue

Intestine Large, Rectum

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 311

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

GALT

Note: Ileum-Peyers patch present with no significant findings.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 312

TRT#: 2

SEX: Female

DAY ON TEST: 29

DOSE: 31.25 mg/kg

DISP: Terminal Sacrifice

HISTO: 312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Cecum
Intestine Small, Ileum
Lung
Stomach, Forestomach

Adrenal Medulla
Intestine Large, Colon
Intestine Small, Jejunum
Lymph Node, Mesenteric
Stomach, Glandular

Bone Marrow
Intestine Large, Rectum
Kidney
Popliteal Lymph Node
Thymus

Gut Associated Lymphoid Tissue
Intestine Small, Duodenum
Liver
Spleen

MISSING

Bronchial Associated Lymphoid
Tissue

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 313

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Cecum
Intestine Small, Jejunum
Lymph Node, Mesenteric
Thymus

Adrenal Medulla
Intestine Large, Colon
Kidney
Spleen

Bone Marrow
Intestine Small, Duodenum
Liver
Stomach, Forestomach

Gut Associated Lymphoid Tissue
Intestine Small, Ileum
Lung
Stomach, Glandular

MISSING

Bronchial Associated Lymphoid
Tissue

Intestine Large, Rectum

Popliteal Lymph Node

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 314

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Spleen	Stomach, Forestomach	Stomach, Glandular

MISSING

Bronchial Associated Lymphoid Tissue	Popliteal Lymph Node
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OBSERVATIONS

Gut Associated Lymphoid Tissue	Interfol area	Increased Number	Neutrophil, Minimal
Note: Jejunum-Peyers patch present with data above. Neutrophils found in interfollicular area.			
Note: Rectum-Rectal patch present but insufficient lymphoid tissue for adequate enhanced histo evaluation.			
Thymus		Cyst	
Note: Cyst-150um;cortex			

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 315

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular			

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

GALT

Note: Colon-Lymphoglandular complex present with insufficient lymphoid tissue for adequate histopathological evaluation.

Note: Ileum-Peyers patch present (data above).

Lung

Infiltration Cellular

Minimal

Note: Lung-Infiltrating cell, Parenchyma, minimal

Pop Lymph Node

Note: BOTH POPLITEAL LN PRESENT.

Thymus

Cyst

Cortex

Decreased Area

Mild

Note: Cyst-100um; medulla

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 316

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Cecum
Intestine Small, Jejunum
Popliteal Lymph Node
Thymus

Adrenal Medulla
Intestine Large, Colon
Kidney
Spleen

Bone Marrow
Intestine Small, Duodenum
Liver
Stomach, Forestomach

Gut Associated Lymphoid Tissue
Intestine Small, Ileum
Lung
Stomach, Glandular

MISSING

Bronchial Associated Lymphoid
Tissue

Intestine Large, Rectum

Lymph Node, Mesenteric

OBSERVATIONS

Bone Marrow

Note: Off center sectioning; enough BM to evaluate, but mostly cortical bone(middle third with barely any femur present).

GALT

Note: Jejunum-Peyers patch present with data above.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 317

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Gut Associated Lymphoid Tissue	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Liver	Lung	Lymph Node, Mesenteric
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum	Popliteal Lymph Node
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OBSERVATIONS

Bone Marrow	Increased Number	Adipocyte, Minimal
Lym Node Mesen		

Note: SUBOPTIMAL SAMPLE, BUT ENOUGH PRESENT TO EVALUATE.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 318

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Cecum
Intestine Small, Ileum
Lung
Stomach, Forestomach

Adrenal Medulla
Intestine Large, Colon
Intestine Small, Jejunum
Lymph Node, Mesenteric
Stomach, Glandular

Bone Marrow
Intestine Large, Rectum
Kidney
Popliteal Lymph Node
Thymus

Gut Associated Lymphoid Tissue
Intestine Small, Duodenum
Liver
Spleen

MISSING

Bronchial Associated Lymphoid
Tissue

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 319

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Ileum	Intestine Small, Jejunum	Kidney
Liver	Lung	Lymph Node, Mesenteric	Popliteal Lymph Node
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum	Intestine Small, Duodenum
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OBSERVATIONS

Gut Associated Lymphoid Tissue	Interfol area	Necrosis	Minimal
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Note: Ileum-Peyers patch present with data above. Increased apoptotic cells located in subepithelial dome area. Necrosis found in FAE.

Note: Jejunum-Peyers patch present with a mild increase in size of interfollicular area, min increase in number of lymphocytes in interfollicular area.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 320

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 62.5 mg/kg

DISP: Terminal Sacrifice

HISTO: 320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Liver	Lymph Node, Mesenteric	Popliteal Lymph Node
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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INSUFFICIENT TISSUE

Gut Associated Lymphoid Tissue

OBSERVATIONS

Bone Marrow

Note: OFF CENTER SECTIONING; ENOUGH BONE MARROW TO EVALUATE, BUT MOSTLY CORTICAL BONE.

Lung

Foreign Body

Pop Lymph Node

Note: BOTH POPLITEAL LN PRESENT.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid
Tissue

INSUFFICIENT TISSUE

Popliteal Lymph Node

OBSERVATIONS

GALT

Note: Colon-Lymphoglandular complex present with data above. Ileum-Peyers patch present with no significant findings.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Liver	Lung	Lymph Node, Mesenteric
Popliteal Lymph Node	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Gut Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

Spleen	Follicles, Germ center	Increased Number	Minimal
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TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

GALT

Note: Rectum-Rectal patch present with data above. Poor architecture.

Note: Colon-Lymphoglandular complex generally poor architecture.

Popliteal Lymph Node	Paracortex	Prominent High Endothelial Venules	Minimal
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Note: BOTH POPLITEAL LN PRESENT.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

GALT

Note: Jejunum-Peyers patch present with data above.

Pop Lymph Node

Note: BOTH POPLITEAL LN PRESENT.

Spleen

Follicles, Germ center

Increased Number

Mild

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Intestine Large, Rectum

INSUFFICIENT TISSUE

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

GALT

Note: Jejunum-Peyers patch present with data above. Ileum-Peyers patch present with no significant findings.

Pop Lymph Node

Note: BOTH POPLITEAL LN PRESENT.

Spleen

Follicles, Germ center

Increased Number

Minimal

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

GALT

Note: Jejunum-Peyers patch present with data above.

Pop Lymph Node

Note: BOTH POPLITEAL LN PRESENT.

TDMS No. 20701 - 99
 Test Type: 18-33 DAYS
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Gum Guggul 2.5% granules
 CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
 Time Report Requested: 11:03:16
 First Dose M/F: NA / 03/02/07
 Lab: VCU

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Kidney
Liver	Lung	Lymph Node, Mesenteric	Popliteal Lymph Node
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

Gut Associated Lymphoid Tissue	Follicles	Increased Number	Lymphocyte, Mild
	Interfol area	Increased Number	Lymphocyte, Minimal
	Follicles	Increased Size	Mild
	Interfol area	Increased Size	Minimal

Note: Jejunum-Peyers patch present with min increase in numbers of apoptotic cells in subepithelial dome area and slight expansion of subepithelial dome area.

Note: Colon-Lymphoglandular complex present with data above. Ileum-Peyers patch present with min increase in size of interfollicular area.

Intestine Large, Colon	Intussusception
Pop Lymph Node	

Note: BOTH POPLITEAL LN PRESENT.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 125 mg/kg

DISP: Terminal Sacrifice

HISTO: 328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

Kidney	Infiltration Cellular	Minimal
Pop Lymph Node		

Note: BOTH POPLITEAL LN PRESENT.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 329

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mesenteric
Popliteal Lymph Node	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

GALT

Note: Colon-Lymphoglandular complex present with data above. Poor architecture.

Kidney

Infiltration Cellular

Minimal

Lym Node Mesen

Note: INCREASED CLEAR SPACING BETWEEN MEDULLARY CORDS.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 330

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Gut Associated Lymphoid Tissue	Popliteal Lymph Node
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INSUFFICIENT TISSUE

Lymph Node, Mesenteric

OBSERVATIONS

Lym Node Mesen

Note: INADEQUATE LYMPHOID TISSUE FOR EVALUATION. ONLY ONE SMALL PORTION OF LN, REMAINDER OF TISSUE IS PANCREAS.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 331

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

Bone Marrow

Note: OFF CENTER SECTIONING; ENOUGH BONE MARROW TO EVALUATE, BUT MOSTLY CORTICAL BONE.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 332

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Gut Associated Lymphoid Tissue	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Liver	Lung	Popliteal Lymph Node
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

Bone Marrow		Decreased Number	Adipocyte, Minimal
Lymph Node, Mesenteric	Cortex, Germ center	Increased Area	Minimal
	Cortex, Germ center	Increased Number	Minimal

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 333

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Stomach, Forestomach	Stomach, Glandular	Thymus	

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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INSUFFICIENT TISSUE

Popliteal Lymph Node

OBSERVATIONS

GALT

Note: Cecum-Cecal patch present with data above. Poor architecture.

Lymph Node, Mesenteric	Cortex, Germ center	Increased Area	Mild
	Cortex, Germ center	Increased Number	Mild
Spleen	Follicles, Germ center	Increased Number	Mild

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 334

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

Bone Marrow

Note: POOR SECTIONING, WITH MOST OF FEMUR NOT PRESENT; BARELY ENOUGH FOR EVALUATION. MUCH OF ASSESSMENT FROM TIBIA.

Lym Node Mesen

Note: SUBOPTIMAL SAMPLE, BUT ENOUGH PRESENT TO EVALUATE.

Popliteal Lymph Node

Increased Number

Pig Macrophag, Minimal

Note: Increased Yellow pigment.

Spleen

Marginal Zone

Decreased Area

Minimal

Marginal Zone

Decreased Number

Lymphocyte, Minimal

Marginal Zone

Decreased Number

Macrophage, Minimal

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 335

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Bone Marrow	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Liver	Lung	Lymph Node, Mesenteric
Popliteal Lymph Node	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

Adrenal Cortex	Unilateral	Hyperplasia	Mild
Gut Associated Lymphoid Tissue	Follicles	Increased Number	Lymphocyte, Mild
	Follicles	Increased Size	Mild
	Follicles, Germ center	Increased Size	Mild

Note: Cecum-Cecal patch present. Increased apoptotic cells and tingible body macrophages in germinal center. Jejunum-Peyers patch present with no significant findings.
Pop Lymph Node

Note: BOTH POPLITEAL LN PRESENT.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 336

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Lymph Node, Mesenteric	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid
Tissue

OBSERVATIONS

Bone Marrow

Note: OFF CENTER SECTIONING; ENOUGH BONE MARROW TO EVALUATE, BUT MOSTLY CORTICAL BONE.

GALT

Note: Ileum-Peyers patch present with data above. Poor architecture.

Kidney

Infiltration Cellular

Minimal

Lym Node Mesen

Note: WIDE VARIABILITY WITHIN LYMPHOID CHAIN, BOTH IN GERMINAL CENTER AND RELATIVE MEDULLARY AREAS.

Popliteal Lymph Node

Increased Number

Neutrophil, Minimal

Note: BOTH POPLITEAL LN PRESENT. MAST CELLS PRESENT IN BOTH LN, BUT INCREASED IN ONLY ONE.

Spleen

Red Pulp

Increased Number

Hemat Cells, Minimal

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Small, Duodenum
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OBSERVATIONS

GALT

Note: Cecum-Cecal patch present but insufficient lymphoid tissue for enhanced histopathological evaluation.

Popliteal Lymph Node	Medull Sinuses, Subcap Sinuses, Trans Sinuses	Increased Number	Mast Cell, Minimal
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Note: SCATTERED MAST CELLS IN ALL SINUSES.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mesenteric
Popliteal Lymph Node	Stomach, Forestomach	Stomach, Glandular	Thymus

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

Kidney		Infiltration Cellular	Minimal
Spleen	Follicles, Germ center	Increased Number	Mild

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Cecum
Intestine Small, Ileum
Lung
Stomach, Forestomach

Adrenal Medulla
Intestine Large, Colon
Intestine Small, Jejunum
Lymph Node, Mesenteric
Stomach, Glandular

Bone Marrow
Intestine Large, Rectum
Kidney
Popliteal Lymph Node

Gut Associated Lymphoid Tissue
Intestine Small, Duodenum
Liver
Spleen

MISSING

Bronchial Associated Lymphoid
Tissue

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Thymus

Note: No medulla present, likely due to plane of section. There is insufficient tissue for an adequate enhanced histopathological evaluation.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Intestine Large, Colon
Kidney
Popliteal Lymph Node
Thymus

Adrenal Medulla
Intestine Small, Duodenum
Liver
Spleen

Bone Marrow
Intestine Small, Ileum
Lung
Stomach, Forestomach

Intestine Large, Cecum
Intestine Small, Jejunum
Lymph Node, Mesenteric
Stomach, Glandular

MISSING

Bronchial Associated Lymphoid
Tissue

Intestine Large, Rectum

INSUFFICIENT TISSUE

Gut Associated Lymphoid Tissue

OBSERVATIONS

GALT

Note: Colon-Lymphoglandular complex-there is insufficient lymphoid tissue for adequate enhanced histopathological evaluation.

Pop Lymph Node

Note: BOTH POPLITEAL LN PRESENT.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal Medulla

Bone Marrow

Intestine Large, Cecum

Intestine Large, Colon

Intestine Large, Rectum

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Kidney

Liver

Lung

Lymph Node, Mesenteric

Spleen

Stomach, Forestomach

Stomach, Glandular

Thymus

MISSING

Bronchial Associated Lymphoid
Tissue

Gut Associated Lymphoid Tissue

Popliteal Lymph Node

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Stomach, Forestomach	Stomach, Glandular
Thymus			

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

GALT

Note: Colon-Lymphoglandular complex present with data above. Poor architecture.

Spleen	Follicles, Germ center	Increased Number	Minimal
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Note: SINGLE DENSE CLUSTER OF LYMPHOCYTES AROUND ONE CENTRAL ARTERY.

TDMS No. 20701 - 99
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Gum Guggul 2.5% granules
CAS Number: GUMGUGGULEXT

Date Report Requested: 06/01/2011
Time Report Requested: 11:03:16
First Dose M/F: NA / 03/02/07
Lab: VCU

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Gut Associated Lymphoid Tissue
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mesenteric	Popliteal Lymph Node	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus		

MISSING

Bronchial Associated Lymphoid Tissue	Intestine Large, Rectum
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OBSERVATIONS

Bone Marrow

Note: OFF CENTER SECTIONING; ENOUGH BONE MARROW TO EVALUATE, BUT MOSTLY CORTICAL BONE.

*** END OF REPORT ***