

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                             |        |
|-----------------------------|--------|
| <b>C Number:</b>            | C50748 |
| <b>Cage Range:</b>          | All    |
| <b>Date Range:</b>          | All    |
| <b>Reasons For Removal:</b> | All    |
| <b>Removal Date Range:</b>  | All    |
| <b>Treatment Groups:</b>    | All    |
| <b>Study Gender:</b>        | Female |

Experiment Number: C50748  
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First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_001       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
| Pancreas               |                            | Necrosis, Focal                          |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Unspecified            | Multiple Organs Nos        | Leukemia, Nos                            |                        |
| Uterus                 | Endometrium                | Decidual Alteration, Nos                 |                        |
| PRIMARY CAUSE OF DEATH |                            |                                          |                        |
| -                      |                            |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
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Date Report Requested: 10/26/2014  
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First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_002       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
|                        |                            | Nephrosis, Nos                           |                        |
| Lymph node             | Mesenteric Lymph Node      | Lymphangiectasis                         |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Uterus                 | Endometrium                | Cyst, Nos                                |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                                |              |
|------------------------|-----------------|--------------------------------|--------------|
| ANIMAL ID: 1_003       | TRT#: 1         | SEX: Female                    | DAY ON TEST: |
|                        | DOSE: 50000 PPM | DISP: Natural Death            | HISTO:       |
| OBSERVATIONS           |                 |                                |              |
| Adrenal gland          | Medulla         | Hyperplasia, Focal             |              |
| Liver                  |                 | Cytoplasmic Change, Basophilic |              |
|                        | Bile Duct       | Hyperplasia, Nos               |              |
| Pancreas               |                 | Periarteritis                  |              |
| Pituitary gland        |                 | Cyst, Nos                      |              |
| Unspecified            |                 | Fibrosarcoma                   |              |
| Uterus                 |                 | Endometrial Stromal Polyp      |              |
| PRIMARY CAUSE OF DEATH | -               |                                |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Gum Arabic

**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:45:20

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 50000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Kidney

Liver

Skin

Unspecified

Bile Duct

Multiple Organs Nos

Calcification, Focal

Hyperplasia, Nos

Squamous Cell Carcinoma

Leukemia, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_005 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Kidney                  |                                          | Nephrosis, Nos                                         |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| Unspecified             | Ear                                      | Sarcoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                  |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_006       | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                  |                                      |
| Bone marrow                   |                                          | Hyperplasia, Nos                                 |                                      |
| Liver                         |                                          | Fibrosis                                         |                                      |
|                               | Bile Duct                                | Hyperplasia, Nos                                 |                                      |
| Mammary gland                 |                                          | Fibroadenoma                                     |                                      |
|                               |                                          | Galactoceles                                     |                                      |
| Unspecified                   | Multiple Organs Nos                      | Leukemia, Nos                                    |                                      |
| Uterus                        |                                          | Endometrial Stromal Polyp                        |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                  |                                      |
| -                             |                                          |                                                  |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_007       | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Brain                         |                                          | Astrocytoma                                            |                                      |
| Mammary gland                 |                                          | Fibroadenoma                                           |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                        |                                      |
| -                             |                                          |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_008       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Intestine Large        | Colon                      | Parasitism                               |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
|                        |                            | Galactoceles                             |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                    |                        |
|------------------------|----------------------------|------------------------------------|------------------------|
| ANIMAL ID: 1_009       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                    |                        |
| Uterus                 |                            | Sarcoma, Nos                       |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_010 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Adrenal gland           |                                          | Hemorrhage                                             |                                      |
| Bone marrow             |                                          | Fibrosis, Focal                                        |                                      |
| Clitoral gland          |                                          | Carcinoma, Nos                                         |                                      |
| Liver                   | Bile Duct                                | Hyperplasia, Nos                                       |                                      |
| Pituitary gland         |                                          | Cyst, Nos                                              |                                      |
| Spleen                  |                                          | Hematopoiesis                                          |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                           |              |
|------------------------|-----------------|---------------------------|--------------|
| ANIMAL ID: 1_011       | TRT#: 1         | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 50000 PPM | DISP: Scheduled Sacrifice | HISTO:       |
| OBSERVATIONS           |                 |                           |              |
| Mammary gland          |                 | Fibroadenoma              |              |
| Uterus                 |                 | Galactoceles              |              |
|                        |                 | Endometrial Stromal Polyp |              |
| PRIMARY CAUSE OF DEATH | -               |                           |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                 |                                          |                                                        |                                      |
|-------------------------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_012                         | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Heart<br>Pituitary gland | Myocardium Nos                           | Degeneration, Nos<br>Adenoma, Nos                      |                                      |
| PRIMARY CAUSE OF DEATH                          | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                        |                                          |                                                        |                                      |
|----------------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_013                | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Pituitary gland |                                          | Cyst, Nos<br>Hyperplasia, Nos                          |                                      |
| PRIMARY CAUSE OF DEATH                 |                                          | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_014       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
|                        |                            | Galactoceles                             |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
|                        |                            | Cyst, Nos                                |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                                |              |
|------------------------|---------------------|--------------------------------|--------------|
| ANIMAL ID: 1_015       | TRT#: 1             | SEX: Female                    | DAY ON TEST: |
|                        | DOSE: 50000 PPM     | DISP: Scheduled Sacrifice      | HISTO:       |
| OBSERVATIONS           |                     |                                |              |
| Bone marrow            |                     | Hyperplasia, Nos               |              |
| Clitoral gland         |                     | Carcinoma, Nos                 |              |
| Heart                  | Myocardium Nos      | Degeneration, Nos              |              |
| Kidney                 |                     | Calcification, Focal           |              |
| Liver                  |                     | Cytoplasmic Change, Basophilic |              |
| Unspecified            |                     | Carcinosarcoma                 |              |
|                        | Multiple Organs Nos | Hematopoiesis                  |              |
| PRIMARY CAUSE OF DEATH |                     |                                |              |
| -                      |                     |                                |              |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                                |              |
|------------------------|-----------------|--------------------------------|--------------|
| ANIMAL ID: 1_016       | TRT#: 1         | SEX: Female                    | DAY ON TEST: |
|                        | DOSE: 50000 PPM | DISP: Scheduled Sacrifice      | HISTO:       |
| OBSERVATIONS           |                 |                                |              |
| Adrenal gland          |                 | Pheochromocytoma               |              |
| Heart                  | Myocardium Nos  | Degeneration, Nos              |              |
| Liver                  |                 | Cytoplasmic Change, Basophilic |              |
| PRIMARY CAUSE OF DEATH | -               |                                |              |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                       |                                      |
|-------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_017 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                       |                                      |
| Brain                   |                                          | Hemorrhage                                            |                                      |
| Pituitary gland         |                                          | Cyst, Nos                                             |                                      |
| Stomach                 | Omentum Nos                              | Necrosis, Fat                                         |                                      |
| Unspecified             | Multiple Organs Nos                      | Leukemia, Nos                                         |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_018       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Liver                  |                            | Cytoplasmic Change, Basophilic           |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Thyroid                |                            | C-Cell Adenoma                           |                        |
| Uterus                 |                            | Hydrometra                               |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                         |                        |
|------------------------|----------------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 1_019       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                         |                        |
| Bone                   | Skull                      | Osteosarcoma                            |                        |
| Brain                  |                            | Hydrocephalus, Nos                      |                        |
| Clitoral gland         |                            | Adenoma, Nos                            |                        |
| Kidney                 |                            | Calcification, Focal                    |                        |
| Liver                  |                            | Metamorphosis, Fatty                    |                        |
| Stomach                | Submucosa                  | Inflammation, Focal                     |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                         |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                    |                        |
|------------------------|----------------------------|------------------------------------|------------------------|
| ANIMAL ID: 1_020       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                    |                        |
| Clitoral gland         |                            | Adenoma, Nos                       |                        |
| Liver                  |                            | Metamorphosis, Fatty               |                        |
| Stomach                | Omentum Nos                | Necrosis, Fat                      |                        |
|                        |                            | Ulcer, Nos                         |                        |
| Unspecified            | Multiple Organs Nos        | Calcification, Focal               |                        |
|                        | Multiple Organs Nos        | Leukemia, Nos                      |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_021       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Adrenal gland          | Cortex Nos                 | Hyperplasia, Nodular                     |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Liver                  |                            | Angiectasis                              |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
| Pituitary gland        |                            | Cyst, Multiple                           |                        |
| Spleen                 |                            | Hematopoiesis                            |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_022 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Heart                   | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Kidney                  |                                          | Calcification, Focal                                   |                                      |
| Pituitary gland         |                                          | Cyst, Nos                                              |                                      |
| Unspecified             |                                          | Lipoma                                                 |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                       |                                      |
|-------------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_023       | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                       |                                      |
| Liver                         |                                          | Cytoplasmic Change, Basophilic                        |                                      |
| Mammary gland                 |                                          | Fibroadenoma                                          |                                      |
|                               |                                          | Galactoceles                                          |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                          |                                      |
| Uterus                        |                                          | Inflammation, Nos                                     |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          | -                                                     |                                      |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                  |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_024 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                  |                                      |
| Heart                   |                                          | Thrombus, Mural                                  |                                      |
| Liver                   |                                          | Congestion, Chronic Passive                      |                                      |
| Lung                    |                                          | Bronchopneumonia, Nos                            |                                      |
| Pituitary gland         |                                          | Cyst, Nos                                        |                                      |
| Stomach                 | Omentum Nos                              | Necrosis, Fat                                    |                                      |
|                         |                                          | Ulcer, Nos                                       |                                      |
| Thymus                  |                                          | Atrophy, Nos                                     |                                      |
| Unspecified             | Abdominal Viscera                        | Congestion, Acute                                |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                  |                                      |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                       |                                      |
|-------------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_025       | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                       |                                      |
| Kidney                        |                                          | Nephrosis, Nos                                        |                                      |
| Liver                         |                                          | Metamorphosis, Fatty                                  |                                      |
| Pituitary gland               |                                          | Chromophobe Adenoma                                   |                                      |
| Skin                          |                                          | Keratoacanthoma                                       |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          | -                                                     |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_026 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Heart                   | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Mammary gland           |                                          | Fibroadenoma                                           |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_027       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Adrenal gland          | Cortex Nos                 | Hyperplasia, Nodular                     |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Stomach                |                            | Inflammation, Chronic Focal              |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                         |                        |
|------------------------|----------------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 1_028       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                         |                        |
| Adrenal gland          |                            | Cortical Adenoma                        |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                       |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                        |                        |
|                        |                            | Neoplastic Nodule                       |                        |
| Mammary gland          |                            | Fibroadenoma                            |                        |
| Pituitary gland        |                            | Adenoma, Nos                            |                        |
| Unspecified            | Multiple Organs Nos        | Leukemia, Nos                           |                        |
| PRIMARY CAUSE OF DEATH |                            |                                         |                        |
| -                      |                            |                                         |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_029       | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Heart                         | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Liver                         | Bile Duct                                | Hyperplasia, Nos                                       |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| Uterus                        |                                          | Cyst, Hemorrhagic                                      |                                      |
|                               |                                          | Endometrial Stromal Polyp                              |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                           |              |
|------------------------|---------------------|---------------------------|--------------|
| ANIMAL ID: 1_030       | TRT#: 1             | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 50000 PPM     | DISP: Natural Death       | HISTO:       |
| OBSERVATIONS           |                     |                           |              |
| Liver                  |                     | Metamorphosis, Fatty      |              |
| Pituitary gland        |                     | Vascularization           |              |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos             |              |
| Uterus                 |                     | Endometrial Stromal Polyp |              |
| PRIMARY CAUSE OF DEATH | -                   |                           |              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                    |                        |
|------------------------|----------------------------|------------------------------------|------------------------|
| ANIMAL ID: 1_031       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                    |                        |
| Esophagus              |                            | Hyperkeratosis                     |                        |
| Heart                  | Pericardium Nos            | Inflammation, Acute/Chronic        |                        |
| Kidney                 |                            | Nephrosis, Nos                     |                        |
| Liver                  |                            | Neoplastic Nodule                  |                        |
| Lung                   |                            | Bronchopneumonia Necrotizing       |                        |
| Pituitary gland        |                            | Cyst, Nos                          |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                       |                                      |
|-------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_032 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                       |                                      |
| Mammary gland           |                                          | Fibroadenoma                                          |                                      |
| Uterus                  |                                          | Endometrial Stromal Polyp                             |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_033       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Clitoral gland         | Myocardium Nos             | Carcinoma, Nos                           |                        |
| Heart                  |                            | Degeneration, Nos                        |                        |
| Kidney                 |                            | Inflammation, Chronic Focal              |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
| Ovary                  |                            | Granulosa-Cell Tumor                     |                        |
| Pituitary gland        |                            | Hyperplasia, Chromophobe Cell            |                        |
| Uterus                 |                            | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                         |                                          |                                                                |                                      |
|---------------------------------------------------------|------------------------------------------|----------------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_034                                 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice         | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Heart<br>Lung<br>Pituitary gland | Myocardium Nos                           | Degeneration, Nos<br>Pneumonia, Chronic Murine<br>Adenoma, Nos |                                      |
| PRIMARY CAUSE OF DEATH                                  | -                                        |                                                                |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_035       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Adrenal gland          | Cortex Nos                 | Hyperplasia, Nodular                     |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
| Lymph node             | Mesenteric Lymph Node      | Congestion, Nos                          |                        |
| Pituitary gland        |                            | Cyst, Nos                                |                        |
| Zymbal gland           |                            | Ceruminous Carcinoma                     |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                                |              |
|------------------------|-----------------|--------------------------------|--------------|
| ANIMAL ID: 1_036       | TRT#: 1         | SEX: Female                    | DAY ON TEST: |
|                        | DOSE: 50000 PPM | DISP: Scheduled Sacrifice      | HISTO:       |
| OBSERVATIONS           |                 |                                |              |
| Adrenal gland          | Cortex Nos      | Hyperplasia, Nodular           |              |
| Heart                  | Myocardium Nos  | Degeneration, Nos              |              |
| Kidney                 |                 | Calcification, Focal           |              |
| Liver                  | Bile Duct       | Hyperplasia, Nos               |              |
| Lung                   |                 | Alveolar/Bronchiolar Carcinoma |              |
| Pituitary gland        |                 | Adenoma, Nos                   |              |
| PRIMARY CAUSE OF DEATH | -               |                                |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                       |                                      |
|-------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_037 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                       |                                      |
| Brain                   |                                          | Glioma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  |                                          |                                                       |                                      |
|                         |                                          | -                                                     |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_038 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Heart                   | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Kidney                  |                                          | Nephrosis, Nos                                         |                                      |
| Liver                   | Bile Duct                                | Hyperplasia, Nos                                       |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                           |              |
|------------------------|---------------------|---------------------------|--------------|
| ANIMAL ID: 1_039       | TRT#: 1             | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 50000 PPM     | DISP: Scheduled Sacrifice | HISTO:       |
| OBSERVATIONS           |                     |                           |              |
| Heart                  | Myocardium Nos      | Degeneration, Nos         |              |
| Liver                  | Bile Duct           | Hyperplasia, Nos          |              |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos             |              |
| Uterus                 |                     | Endometrial Stromal Polyp |              |
| PRIMARY CAUSE OF DEATH | -                   |                           |              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_040       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Adrenal gland          | Cortex Nos                 | Hyperplasia, Nodular                     |                        |
| Brain                  |                            | Hydrocephalus, Nos                       |                        |
| Kidney                 |                            | Nephrosis, Nos                           |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
|                        |                            | Metamorphosis, Fatty                     |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 1_041       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Liver                  |                            | Cytoplasmic Change, Basophilic           |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
|                        |                            | Galactoceles                             |                        |
| Pituitary gland        |                            | Cyst, Nos                                |                        |
| Uterus                 |                            | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                       |                                      |
|-------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_042 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                       |                                      |
| Kidney                  |                                          | Nephrosis, Nos                                        |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                          |                                      |
| PRIMARY CAUSE OF DEATH  |                                          | -                                                     |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                           |              |
|------------------------|-----------------|---------------------------|--------------|
| ANIMAL ID: 1_043       | TRT#: 1         | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 50000 PPM | DISP: Scheduled Sacrifice | HISTO:       |
| OBSERVATIONS           |                 |                           |              |
| Heart                  | Myocardium Nos  | Degeneration, Nos         |              |
| Kidney                 |                 | Nephrosis, Nos            |              |
| Liver                  | Bile Duct       | Hyperplasia, Nos          |              |
| Lung                   | Bronchiole      | Metaplasia, Nos           |              |
| Pituitary gland        |                 | Cyst, Nos                 |              |
| Thyroid                |                 | C-Cell Adenoma            |              |
| Uterus                 |                 | Endometrial Stromal Polyp |              |
| PRIMARY CAUSE OF DEATH | -               |                           |              |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_044       | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Kidney                        |                                          | Nephrosis, Nos                                         |                                      |
| Mammary gland                 |                                          | Galactoceles                                           |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| Stomach                       |                                          | Inflammation, Chronic Focal                            |                                      |
| Thyroid                       |                                          | Hyperplasia, C Cell                                    |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                    |                        |
|------------------------|----------------------------|------------------------------------|------------------------|
| ANIMAL ID: 1_045       | TRT#: 1<br>DOSE: 50000 PPM | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                    |                        |
| Kidney                 |                            | Calcification, Focal               |                        |
| Liver                  |                            | Cytoplasmic Change, Basophilic     |                        |
| Lymph node             |                            | Congestion, Nos                    |                        |
| Mammary gland          |                            | Fibroadenoma                       |                        |
| Pituitary gland        |                            | Galactoceles                       |                        |
|                        |                            | Chromophobe Adenoma                |                        |
| PRIMARY CAUSE OF DEATH |                            | -                                  |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                                                   |                                          |                                                                              |                                      |
|-----------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_046                                                           | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice                       | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Adrenal gland<br>Mammary gland<br>Ovary<br>Pituitary gland | Cortex Nos                               | Hyperplasia, Nodular<br>Fibroadenoma<br>Granulosa-Cell Tumor<br>Adenoma, Nos |                                      |
| PRIMARY CAUSE OF DEATH                                                            | -                                        |                                                                              |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                       |                                      |
|-------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_047 | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                       |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                          |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                      |                         |              |
|------------------------|----------------------|-------------------------|--------------|
| ANIMAL ID: 1_048       | TRT#: 1              | SEX: Female             | DAY ON TEST: |
|                        | DOSE: 50000 PPM      | DISP: Natural Death     | HISTO:       |
| OBSERVATIONS           |                      |                         |              |
| Brain                  |                      | Hemorrhage              |              |
| Ear                    | External Ear         | Hematoma, Nos           |              |
| Liver                  |                      | Metamorphosis, Fatty    |              |
| Lymph node             | Abdominal Lymph Node | Congestion, Nos         |              |
| Pituitary gland        |                      | Cyst, Hemorrhagic       |              |
| Stomach                |                      | Hyperplasia, Basal Cell |              |
|                        |                      | Ulcer, Nos              |              |
| Unspecified            | Multiple Organs Nos  | Leukemia, Nos           |              |
| PRIMARY CAUSE OF DEATH |                      |                         |              |
| -                      |                      |                         |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                            |                                          |                                                        |                                      |
|------------------------------------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 1_049                                    | <b>TRT#:</b> 1<br><b>DOSE:</b> 50000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Liver<br>Pituitary gland<br>Thyroid | Bile Duct                                | Hyperplasia, Nos<br>Cyst, Nos<br>Hyperplasia, C Cell   |                                      |
| PRIMARY CAUSE OF DEATH                                     | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                           |              |
|------------------------|-----------------|---------------------------|--------------|
| ANIMAL ID: 1_050       | TRT#: 1         | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 50000 PPM | DISP: Scheduled Sacrifice | HISTO:       |
| OBSERVATIONS           |                 |                           |              |
| Kidney                 |                 | Calcification, Focal      |              |
| Liver                  | Bile Duct       | Hyperplasia, Nos          |              |
| Mammary gland          |                 | Fibroadenoma              |              |
|                        |                 | Galactoceles              |              |
| Pituitary gland        |                 | Adenoma, Nos              |              |
| PRIMARY CAUSE OF DEATH | -               |                           |              |

\* PROTOCOL REQUIRED TISSUE

|                        |                       |                           |              |
|------------------------|-----------------------|---------------------------|--------------|
| ANIMAL ID: 2_001       | TRT#: 2               | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 25000 PPM       | DISP: Scheduled Sacrifice | HISTO:       |
| OBSERVATIONS           |                       |                           |              |
| Kidney                 |                       | Nephrosis, Nos            |              |
| Liver                  | Bile Duct             | Hyperplasia, Nos          |              |
| Lymph node             | Mesenteric Lymph Node | Lymphangiectasis          |              |
| Pituitary gland        |                       | Adenoma, Nos              |              |
| Stomach                |                       | Acanthosis                |              |
|                        |                       | Inflammation, Chronic     |              |
| PRIMARY CAUSE OF DEATH |                       |                           |              |
|                        | -                     |                           |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                                        |                                          |                                                    |                                      |
|------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_002                                                | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death   | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Mammary gland<br>Pituitary gland<br>Unspecified | Multiple Organs Nos                      | Fibroadenoma<br>Cyst, Hemorrhagic<br>Leukemia, Nos |                                      |
| PRIMARY CAUSE OF DEATH                                                 | -                                        |                                                    |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_003       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Kidney                        |                                          | Calcification, Focal                                   |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| Thyroid                       | Follicle                                 | Papillary Cystadenoma, Nos                             |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                        |                                      |
| -                             |                                          |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                   |                                          |                                                        |                                      |
|---------------------------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_004                           | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Intestine Large<br>Thyroid | Colon                                    | Parasitism<br>C-Cell Carcinoma                         |                                      |
| PRIMARY CAUSE OF DEATH                            | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_005 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Kidney                  |                                          | Calcification, Focal                                   |                                      |
| Mammary gland           |                                          | Fibroadenoma                                           |                                      |
| PRIMARY CAUSE OF DEATH  |                                          | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_006       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Liver                         |                                          | Neoplastic Nodule                                      |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| Unspecified                   | Multiple Organs Nos                      | Leukemia, Nos                                          |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                        |                                      |
| -                             |                                          |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_007 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Kidney                  | Papilla                                  | Calcification, Nos                                     |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_008       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Adrenal gland          |                            | Cortical Adenoma                         |                        |
| Clitoral gland         |                            | Carcinoma, Nos                           |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Spleen                 |                            | Hematopoiesis                            |                        |
| Uterus                 |                            | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                         |                        |
|------------------------|----------------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 2_009       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                         |                        |
| Kidney                 |                            | Nephrosis, Nos                          |                        |
| Liver                  |                            | Metamorphosis, Fatty                    |                        |
| Pituitary gland        |                            | Adenoma, Nos                            |                        |
| Stomach                |                            | Hyperplasia, Basal Cell                 |                        |
|                        |                            | Ulcer, Nos                              |                        |
| PRIMARY CAUSE OF DEATH |                            |                                         |                        |
|                        |                            | -                                       |                        |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_010 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Heart                   | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Kidney                  |                                          | Nephrosis, Nos                                         |                                      |
| Mammary gland           |                                          | Galactocoele                                           |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_011       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Liver                         |                                          | Cytoplasmic Change, Basophilic                         |                                      |
| Mammary gland                 |                                          | Fibroadenoma                                           |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| Stomach                       |                                          | Hyperplasia, Basal Cell                                |                                      |
| Uterus                        |                                          | Hemangioma                                             |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                       |                                      |
|-------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_012 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                       |                                      |
| Kidney                  |                                          | Nephrosis, Nos                                        |                                      |
| Liver                   |                                          | Metamorphosis, Fatty                                  |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                          |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_013       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Intestine Large        | Colon                      | Parasitism                               |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_014       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
|                        |                            | Galactoceles                             |                        |
| Pituitary gland        |                            | Cyst, Nos                                |                        |
| Unspecified            | Multiple Organs Nos        | Leukemia, Nos                            |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_015 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Brain                   |                                          | Hydrocephalus, Nos                                     |                                      |
| Heart                   | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Kidney                  |                                          | Nephrosis, Nos                                         |                                      |
| Lymph node              | Mesenteric Lymph Node                    | Lymphangiectasis                                       |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                  |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_016       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                  |                                      |
| Liver                         |                                          | Metamorphosis, Fatty                             |                                      |
| Pituitary gland               |                                          | Hyperplasia, Chromophobe Cell                    |                                      |
| Spleen                        |                                          | Hematopoiesis                                    |                                      |
| Uterus                        |                                          | Endometrial Stromal Sarcoma                      |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                  |                                      |
| -                             |                                          |                                                  |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_017       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Adrenal gland          |                            | Pheochromocytoma                         |                        |
| Brain                  |                            | Hydrocephalus, Nos                       |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Kidney                 |                            | Nephrosis, Nos                           |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
|                        |                            | Neoplastic Nodule                        |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Uterus                 |                            | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                            |                                          |                                                        |                                      |
|------------------------------------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_018                                    | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Liver<br>Pituitary gland<br>Thyroid | Bile Duct                                | Hyperplasia, Nos<br>Vascularization<br>C-Cell Adenoma  |                                      |
| PRIMARY CAUSE OF DEATH                                     | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                           |              |
|------------------------|-----------------|---------------------------|--------------|
| ANIMAL ID: 2_019       | TRT#: 2         | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 25000 PPM | DISP: Scheduled Sacrifice | HISTO:       |
| OBSERVATIONS           |                 |                           |              |
| Mammary gland          |                 | Fibroadenoma              |              |
|                        |                 | Galactoceles              |              |
| Uterus                 |                 | Endometrial Stromal Polyp |              |
|                        |                 | Thrombosis, Nos           |              |
| Zymbal gland           |                 | Ceruminous Carcinoma      |              |
| PRIMARY CAUSE OF DEATH | -               |                           |              |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                           |              |
|------------------------|-----------------|---------------------------|--------------|
| ANIMAL ID: 2_020       | TRT#: 2         | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 25000 PPM | DISP: Scheduled Sacrifice | HISTO:       |
| OBSERVATIONS           |                 |                           |              |
| Adrenal gland          |                 | Pheochromocytoma          |              |
| Kidney                 |                 | Nephrosis, Nos            |              |
| Liver                  | Bile Duct       | Hyperplasia, Nos          |              |
| Pituitary gland        |                 | Adenoma, Nos              |              |
| Thyroid                |                 | Hyperplasia, C Cell       |              |
| Uterus                 |                 | Endometrial Stromal Polyp |              |
| PRIMARY CAUSE OF DEATH | -               |                           |              |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                       |                                      |
|-------------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_021       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                       |                                      |
| Clitoral gland                |                                          | Carcinoma, Nos                                        |                                      |
| Heart                         | Myocardium Nos                           | Degeneration, Nos                                     |                                      |
|                               |                                          | Thrombus, Mural                                       |                                      |
| Liver                         | Centrilobular                            | Necrosis, Nos                                         |                                      |
| Spleen                        |                                          | Hematopoiesis                                         |                                      |
| Uterus                        |                                          | Endometrial Stromal Polyp                             |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                       |                                      |
| -                             |                                          |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_022       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Heart                         | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Kidney                        |                                          | Nephrosis, Nos                                         |                                      |
| Liver                         |                                          | Metamorphosis, Fatty                                   |                                      |
| Pituitary gland               |                                          | Cyst, Nos                                              |                                      |
| Spleen                        |                                          | Hematopoiesis                                          |                                      |
| Urinary bladder               |                                          | Hematoma, Nos                                          |                                      |
| Uterus                        |                                          | Endometrial Stromal Polyp                              |                                      |
|                               |                                          | Hydrometra                                             |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_023       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                            |                                         |                        |
|------------------------|----------------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 2_024       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                         |                        |
| Adrenal gland          | Cortex Nos                 | Hyperplasia, Nodular                    |                        |
| Brain                  |                            | Granular-Cell Tumor, Nos                |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                        |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                         |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                                |              |
|------------------------|-----------------|--------------------------------|--------------|
| ANIMAL ID: 2_025       | TRT#: 2         | SEX: Female                    | DAY ON TEST: |
|                        | DOSE: 25000 PPM | DISP: Scheduled Sacrifice      | HISTO:       |
| OBSERVATIONS           |                 |                                |              |
| Kidney                 |                 | Nephrosis, Nos                 |              |
| Liver                  | Bile Duct       | Hyperplasia, Nos               |              |
| Lung                   |                 | Alveolar/Bronchiolar Carcinoma |              |
| Pituitary gland        |                 | Adenoma, Nos                   |              |
| PRIMARY CAUSE OF DEATH | -               |                                |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_026       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Kidney                        |                                          | Nephrosis, Nos                                         |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| Uterus                        |                                          | Endometrial Stromal Polyp                              |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_027       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
|                        |                            | Galactoceles                             |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                    |                        |
|------------------------|----------------------------|------------------------------------|------------------------|
| ANIMAL ID: 2_028       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                    |                        |
| Adrenal gland          | Cortex Nos                 | Hyperplasia, Nodular               |                        |
| Intestine Small        | Mesentery Nos              | Necrosis, Fat                      |                        |
| Kidney                 |                            | Calcification, Focal               |                        |
| Liver                  |                            | Metamorphosis, Fatty               |                        |
| Pituitary gland        |                            | Adenoma, Nos                       |                        |
| Unspecified            | Multiple Organs Nos        | Leukemia, Nos                      |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_029       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                          |              |
|------------------------|-----------------|--------------------------|--------------|
| ANIMAL ID: 2_030       | TRT#: 2         | SEX: Female              | DAY ON TEST: |
|                        | DOSE: 25000 PPM | DISP: Moribund Sacrifice | HISTO:       |
| OBSERVATIONS           |                 |                          |              |
| Bone                   | Vertebra        | Chordoma                 |              |
| Intestine Large        | Colon           | Edema, Nos               |              |
|                        | Colon           | Hypertrophy, Nos         |              |
| Kidney                 |                 | Calcification, Focal     |              |
| Pituitary gland        |                 | Chromophobe Adenoma      |              |
| Spleen                 |                 | Hemosiderosis            |              |
| PRIMARY CAUSE OF DEATH | -               |                          |              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_031       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                           |              |
|------------------------|-----------------|---------------------------|--------------|
| ANIMAL ID: 2_032       | TRT#: 2         | SEX: Female               | DAY ON TEST: |
|                        | DOSE: 25000 PPM | DISP: Natural Death       | HISTO:       |
| OBSERVATIONS           |                 |                           |              |
| Heart                  | Atrium          | Thrombus, Mural           |              |
| Kidney                 | Capsule         | Abscess, Nos              |              |
| Liver                  |                 | Metamorphosis, Fatty      |              |
|                        |                 | Necrosis, Focal           |              |
| Spleen                 |                 | Hemosiderosis             |              |
| Stomach                | Forestomach     | Hyperplasia, Basal Cell   |              |
|                        | Mucosa          | Ulcer, Nos                |              |
| Urinary bladder        |                 | Inflammation, Chronic     |              |
| Uterus                 |                 | Endometrial Stromal Polyp |              |
| PRIMARY CAUSE OF DEATH | -               |                           |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                       |                                      |
|-------------------------------|------------------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_033       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                       |                                      |
| Liver                         |                                          | Metamorphosis, Fatty                                  |                                      |
| Stomach                       |                                          | Ulcer, Nos                                            |                                      |
| Unspecified                   | Multiple Organs Nos                      | Lymphoma, Nos-Malignant                               |                                      |
| Uterus                        |                                          | Endometrial Stromal Polyp                             |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                       |                                      |
| -                             |                                          |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_034       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Thyroid                |                            | C-Cell Adenoma                           |                        |
| Unspecified            | Abdominal Wall Nos         | Lipoma                                   |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_035 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Heart                   | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Mammary gland           |                                          | Fibroadenoma                                           |                                      |
|                         |                                          | Galactoceles                                           |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_036       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Adrenal gland          | Cortex Nos                 | Dysplasia, Nos                           |                        |
| Kidney                 |                            | Nephrosis, Nos                           |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Stomach                |                            | Hyperplasia, Basal Cell                  |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_037       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Kidney                 |                            | Calcification, Focal                     |                        |
| Liver                  |                            | Metamorphosis, Fatty                     |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
|                        |                            | Galactoceles                             |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Spleen                 |                            | Hematopoiesis                            |                        |
| Thyroid                |                            | Hyperplasia, C Cell                      |                        |
| PRIMARY CAUSE OF DEATH |                            | -                                        |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_038 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                                      |                                          |                                                        |                                      |
|--------------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_039              | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Mammary gland |                                          | Fibroadenoma<br>Galactoceles                           |                                      |
| PRIMARY CAUSE OF DEATH               |                                          | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_040       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Clitoral gland         |                            | Adenoma, Nos                             |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                        |                        |
| Pituitary gland        |                            | Adenoma, Nos                             |                        |
| Skin                   |                            | Squamous Cell Papilloma                  |                        |
| Spleen                 |                            | Hematopoiesis                            |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                         |                        |
|------------------------|----------------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 2_041       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                         |                        |
| Adrenal gland          |                            | Pheochromocytoma                        |                        |
| Harderian gland        | Hardarian Gland            | Adenoma, Nos                            |                        |
| Liver                  |                            | Metamorphosis, Fatty                    |                        |
| Nasal cavity           | Turbinate Nos              | Congestion, Nos                         |                        |
| Unspecified            | Multiple Organs Nos        | Hemorrhage                              |                        |
|                        | Multiple Organs Nos        | Leukemia, Nos                           |                        |
| Uterus                 |                            | Endometrial Stromal Polyp               |                        |
| PRIMARY CAUSE OF DEATH |                            |                                         |                        |
| -                      |                            |                                         |                        |

\* PROTOCOL REQUIRED TISSUE

|                         |                                          |                                                        |                                      |
|-------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_042 | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                          |                                                        |                                      |
| Heart                   | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Liver                   |                                          | Clear-Cell Change                                      |                                      |
|                         |                                          | Cyst, Nos                                              |                                      |
| Pituitary gland         |                                          | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                        |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_043       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Adrenal gland                 |                                          | Pheochromocytoma                                       |                                      |
| Heart                         | Myocardium Nos                           | Degeneration, Nos                                      |                                      |
| Kidney                        |                                          | Nephrosis, Nos                                         |                                      |
| Liver                         | Bile Duct                                | Hyperplasia, Nos                                       |                                      |
| Skin                          |                                          | Squamous Cell Papilloma                                |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          |                                                        |                                      |
| -                             |                                          |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                  |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_044       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Kidney |                                          | Necrosis, Medullary                              |                                      |
| PRIMARY CAUSE OF DEATH        |                                          | -                                                |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                          |                                                        |                                      |
|-------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 2_045       | <b>TRT#:</b> 2<br><b>DOSE:</b> 25000 PPM | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                          |                                                        |                                      |
| Liver                         |                                          | Necrosis, Focal                                        |                                      |
| Pituitary gland               |                                          | Adenoma, Nos                                           |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                          | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                          |                            |                                          |                        |
|--------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_046         | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS             |                            |                                          |                        |
| Liver<br>Pituitary gland | Bile Duct                  | Hyperplasia, Nos<br>Adenoma, Nos         |                        |
| PRIMARY CAUSE OF DEATH   | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_047       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Mammary gland          |                            | Fibroadenoma                             |                        |
| Unspecified            | Multiple Organs Nos        | Leukemia, Nos                            |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                         |                        |
|------------------------|----------------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 2_048       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                         |                        |
| Adrenal gland          |                            | Cortical Adenoma<br>Pheochromocytoma    |                        |
| Brain                  |                            | Hydrocephalus, Nos                      |                        |
| Heart                  | Myocardium Nos             | Degeneration, Nos                       |                        |
| Kidney                 |                            | Calcification, Focal                    |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                        |                        |
| Pituitary gland        |                            | Carcinoma, Nos                          |                        |
| Thyroid                |                            | Hyperplasia, C Cell                     |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                         |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                            |                                          |                        |
|------------------------|----------------------------|------------------------------------------|------------------------|
| ANIMAL ID: 2_049       | TRT#: 2<br>DOSE: 25000 PPM | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                            |                                          |                        |
| Liver                  | Bile Duct                  | Hyperplasia, Nos                         |                        |
| Thyroid                |                            | Hyperplasia, C Cell                      |                        |
| Unspecified            | Multiple Organs Nos        | Leukemia, Nos                            |                        |
| PRIMARY CAUSE OF DEATH | -                          |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                 |                     |              |
|------------------------|-----------------|---------------------|--------------|
| ANIMAL ID: 2_050       | TRT#: 2         | SEX: Female         | DAY ON TEST: |
|                        | DOSE: 25000 PPM | DISP: Natural Death | HISTO:       |
| OBSERVATIONS           |                 |                     |              |
| Heart                  | Myocardium Nos  | Degeneration, Nos   |              |
| Kidney                 |                 | Nephrosis, Nos      |              |
| Liver                  |                 | Neoplastic Nodule   |              |
| Spleen                 |                 | Hematopoiesis       |              |
| Unspecified            |                 | Neurilemoma         |              |
| PRIMARY CAUSE OF DEATH | -               |                     |              |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_001       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Kidney                 |                    | Nephrosis, Nos                           |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Skin                   |                    | Skin Tag                                 |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Gum Arabic

CAS Number: 9000-01-5

Date Report Requested: 10/26/2014

Time Report Requested: 10:45:20

First Dose M/F: NA / NA

Lab: NA

|                        |                     |                                    |                        |
|------------------------|---------------------|------------------------------------|------------------------|
| ANIMAL ID: 3_002       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                    |                        |
| Kidney                 |                     | Nephrosis, Nos                     |                        |
| Thyroid                |                     | C-Cell Carcinoma                   |                        |
| Unspecified            | Multiple Organs Nos | Granuloma, Foreign Body            |                        |
|                        | Multiple Organs Nos | Leukemia, Nos                      |                        |
| PRIMARY CAUSE OF DEATH | -                   |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                  |                                                        |                                      |
|-------------------------|----------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_003 | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                  |                                                        |                                      |
| Liver                   | Bile Duct                        | Hyperplasia, Nos                                       |                                      |
| PRIMARY CAUSE OF DEATH  | -                                |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_004       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Intestine Large        | Colon              | Parasitism                               |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
| Mammary gland          |                    | Galactoceles                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                  |                                                  |                                      |
|-------------------------------|----------------------------------|--------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_005       | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                  |                                                  |                                      |
| Heart                         | Myocardium Nos                   | Degeneration, Nos                                |                                      |
| Kidney                        |                                  | Calcification, Focal                             |                                      |
|                               |                                  | Nephrosis, Nos                                   |                                      |
| Pituitary gland               |                                  | Adenoma, Nos                                     |                                      |
| Uterus                        |                                  | Endometrial Stromal Polyp                        |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                  |                                                  |                                      |
| -                             |                                  |                                                  |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                  |                                                  |                                      |
|-------------------------|----------------------------------|--------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_006 | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                  |                                                  |                                      |
| Pituitary gland         |                                  | Cyst, Multiple                                   |                                      |
| Unspecified             | Multiple Organs Nos              | Leukemia, Nos                                    |                                      |
| PRIMARY CAUSE OF DEATH  | -                                |                                                  |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                                                               |                    |                                                                  |                        |
|---------------------------------------------------------------|--------------------|------------------------------------------------------------------|------------------------|
| ANIMAL ID: 3_007                                              | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice                         | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS<br>Intestine Large<br>Pituitary gland<br>Thyroid | Colon              | Cyst, Epidermal Inclusion<br>Adenoma, Nos<br>Hyperplasia, C Cell |                        |
| PRIMARY CAUSE OF DEATH                                        | -                  |                                                                  |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_008       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Bone                   | Skull              | Deformity, Nos                           |                        |
| Kidney                 |                    | Nephrosis, Nos                           |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_009       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_010       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Kidney                 |                    | Nephrosis, Nos                           |                        |
| Pituitary gland        |                    | Carcinoma, Nos                           |                        |
| Spleen                 |                    | Hematopoiesis                            |                        |
| Thyroid                |                    | Hyperplasia, C Cell                      |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                     |                                          |                        |
|------------------------|---------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_011       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                          |                        |
| Kidney                 |                     | Nephrosis, Cholemic                      |                        |
| Liver                  | Bile Duct           | Hyperplasia, Nos                         |                        |
|                        |                     | Metamorphosis, Fatty                     |                        |
| Pituitary gland        |                     | Vascularization                          |                        |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos                            |                        |
| Uterus                 |                     | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH |                     |                                          |                        |
| -                      |                     |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                               |                    |                                         |                        |
|-------------------------------|--------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 3_012              | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS<br>Mammary gland |                    | Fibroadenoma                            |                        |
| PRIMARY CAUSE OF DEATH        |                    | -                                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_013       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Intestine Small        | Mesentery Nos      | Necrosis, Fat                            |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Thyroid                |                    | C-Cell Adenoma                           |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                              |                        |
|------------------------|--------------------|----------------------------------------------|------------------------|
| ANIMAL ID: 3_014       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice     | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                              |                        |
| Adrenal gland          | Cortex Nos         | Hemorrhage<br>Pheochromocytoma               |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                            |                        |
| Kidney                 |                    | Calcification, Focal<br>Nephrosis, Nos       |                        |
| Mammary gland          |                    | Galactoceles                                 |                        |
| Pituitary gland        |                    | Carcinoma, Nos                               |                        |
| Uterus                 |                    | Endometrial Stromal Polyp<br>Thrombosis, Nos |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                              |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_015       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
|                        |                    | Neoplastic Nodule                        |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Thyroid                | Follicle           | Papillary Cystadenoma, Nos               |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                               |                                  |                                                        |                                      |
|-------------------------------|----------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_016       | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                  |                                                        |                                      |
| Kidney                        |                                  | Nephrosis, Nos                                         |                                      |
| Mammary gland                 |                                  | Fibroadenoma                                           |                                      |
|                               |                                  | Galactoceles                                           |                                      |
| Pituitary gland               |                                  | Adenoma, Nos                                           |                                      |
| Thyroid                       |                                  | Hyperplasia, C Cell                                    |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                  | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                  |                                                       |                                      |
|-------------------------------|----------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_017       | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                  |                                                       |                                      |
| Pituitary gland               |                                  | Hyperplasia, Nos                                      |                                      |
| Spleen                        |                                  | Hematopoiesis                                         |                                      |
| Uterus                        |                                  | Sarcoma, Nos                                          |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                  |                                                       |                                      |
| -                             |                                  |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                                          |                        |
|------------------------|---------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_018       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                          |                        |
| Clitoral gland         |                     | Adenoma, Nos                             |                        |
| Heart                  | Myocardium Nos      | Degeneration, Nos                        |                        |
| Kidney                 |                     | Calcification, Focal                     |                        |
| Liver                  | Bile Duct           | Hyperplasia, Nos                         |                        |
| Pituitary gland        |                     | Cyst, Nos                                |                        |
| Thyroid                |                     | Hyperplasia, C Cell                      |                        |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos                            |                        |
| Uterus                 |                     | Hydrometra                               |                        |
| PRIMARY CAUSE OF DEATH | -                   |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_019       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Intestine Small        | Mesentery Nos      | Necrosis, Fat                            |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
|                        |                    | Neoplastic Nodule                        |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
|                        |                    | Galactocoele                             |                        |
| Pancreas               |                    | Fibrosis, Focal                          |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                     |                                    |                        |
|------------------------|---------------------|------------------------------------|------------------------|
| ANIMAL ID: 3_020       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                    |                        |
| Liver                  |                     | Metamorphosis, Fatty               |                        |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos                      |                        |
| PRIMARY CAUSE OF DEATH | -                   |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_021       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Clitoral gland         |                    | Carcinoma, Nos                           |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Intestine Large        | Colon              | Parasitism                               |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
| Liver                  |                    | Cytoplasmic Change, Basophilic           |                        |
| Pituitary gland        |                    | Hyperplasia, Focal                       |                        |
| Stomach                |                    | Hyperplasia, Basal Cell                  |                        |
| Thyroid                |                    | Hyperplasia, C Cell                      |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                                                 |                                  |                                                        |                                      |
|-------------------------------------------------|----------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_022                         | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b><br>Heart<br>Pituitary gland | Myocardium Nos                   | Degeneration, Nos<br>Adenoma, Nos                      |                                      |
| PRIMARY CAUSE OF DEATH                          | -                                |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                                          |                        |
|------------------------|---------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_023       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                          |                        |
| Mammary gland          |                     | Fibroadenoma                             |                        |
|                        |                     | Galactoceles                             |                        |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos                            |                        |
| PRIMARY CAUSE OF DEATH | -                   |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                  |                                                        |                                      |
|-------------------------|----------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_024 | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                  |                                                        |                                      |
| Heart                   | Myocardium Nos                   | Degeneration, Nos                                      |                                      |
| Kidney                  |                                  | Calcification, Focal                                   |                                      |
| Lymph node              | Mesenteric Lymph Node            | Lymphangiectasis                                       |                                      |
| Pituitary gland         |                                  | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                                    |                        |
|------------------------|---------------------|------------------------------------|------------------------|
| ANIMAL ID: 3_025       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                    |                        |
| Heart                  | Myocardium Nos      | Degeneration, Nos                  |                        |
| Liver                  |                     | Metamorphosis, Fatty               |                        |
| Pituitary gland        |                     | Adenoma, Nos                       |                        |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos                      |                        |
| PRIMARY CAUSE OF DEATH | -                   |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_026       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Intestine Large        | Colon              | Parasitism                               |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Thyroid                |                    | Hyperplasia, C Cell                      |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                         |                        |
|------------------------|--------------------|-----------------------------------------|------------------------|
| ANIMAL ID: 3_027       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Moribund Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                         |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                       |                        |
| Intestine Small        | Mesentery Nos      | Necrosis, Fat                           |                        |
| Kidney                 |                    | Nephrosis, Nos                          |                        |
| Liver                  |                    | Cytoplasmic Change, Basophilic          |                        |
|                        |                    | Cytoplasmic Vacuolization               |                        |
| Mammary gland          |                    | Fibroadenoma                            |                        |
|                        |                    | Galactocoele                            |                        |
| Pituitary gland        |                    | Adenoma, Nos                            |                        |
| Stomach                |                    | Ulcer, Nos                              |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                         |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                    |                        |
|------------------------|--------------------|------------------------------------|------------------------|
| ANIMAL ID: 3_028       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                    |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                  |                        |
| Kidney                 |                    | Nephrosis, Nos                     |                        |
| Liver                  |                    | Metamorphosis, Fatty               |                        |
| Lymph node             |                    | Inflammation, Nos                  |                        |
| Skin                   | Neck               | Abscess, Nos                       |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

|                               |                                  |                                                  |                                      |
|-------------------------------|----------------------------------|--------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_029       | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Natural Death | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                  |                                                  |                                      |
| Kidney                        |                                  | Nephrosis, Nos                                   |                                      |
| Pituitary gland               |                                  | Chromophobe Adenoma                              |                                      |
| Thyroid                       |                                  | Follicular-Cell Carcinoma                        |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                  | -                                                |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_030       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Intestine Large        | Colon              | Parasitism                               |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                                          |                        |
|------------------------|---------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_032       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                          |                        |
| Heart                  | Myocardium Nos      | Degeneration, Nos                        |                        |
| Liver                  | Bile Duct           | Hyperplasia, Nos                         |                        |
| Pituitary gland        |                     | Adenoma, Nos                             |                        |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos                            |                        |
| Uterus                 |                     | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                   |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                               |                                  |                                                       |                                      |
|-------------------------------|----------------------------------|-------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_033       | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                  |                                                       |                                      |
| Liver                         |                                  | Metamorphosis, Fatty                                  |                                      |
| Stomach                       |                                  | Ulcer, Nos                                            |                                      |
| Unspecified                   | Multiple Organs Nos              | Lymphoma, Nos-Malignant                               |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                  |                                                       |                                      |
| -                             |                                  |                                                       |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_034       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
|                        |                    | Galactoceles                             |                        |
| Thyroid                |                    | C-Cell Adenoma                           |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_035       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Adrenal gland          | Medulla            | Hyperplasia, Nos                         |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Kidney                 |                    | Nephrosis, Nos                           |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
|                        |                    | Galactoceles                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Thyroid                |                    | Hyperplasia, C Cell                      |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_036       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
|                        |                    | Galactoceles                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Uterus                 |                    | Thrombosis, Nos                          |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_037       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
|                        |                    | Nephrosis, Nos                           |                        |
| Liver                  |                    | Neoplastic Nodule                        |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
|                        |                    | Galactoceles                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
|                        |                    | Thrombosis, Nos                          |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_038       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Liver                  |                    | Cytoplasmic Change, Basophilic           |                        |
|                        | Bile Duct          | Hyperplasia, Nos                         |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
|                        |                    | Hyperplasia, Nos                         |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Gum Arabic  
**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:45:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

|                         |                                  |                                                        |                                      |
|-------------------------|----------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_039 | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>     |                                  |                                                        |                                      |
| Heart                   | Myocardium Nos                   | Degeneration, Nos                                      |                                      |
| Kidney                  |                                  | Calcification, Focal                                   |                                      |
| Mammary gland           |                                  | Galactoceles                                           |                                      |
| Pituitary gland         |                                  | Adenoma, Nos                                           |                                      |
| PRIMARY CAUSE OF DEATH  | -                                |                                                        |                                      |

\* PROTOCOL REQUIRED TISSUE

|                               |                                  |                                                        |                                      |
|-------------------------------|----------------------------------|--------------------------------------------------------|--------------------------------------|
| <b>ANIMAL ID:</b> 3_040       | <b>TRT#:</b> 3<br><b>DOSE:</b> 0 | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b><br><b>HISTO:</b> |
| <b>OBSERVATIONS</b>           |                                  |                                                        |                                      |
| Kidney                        |                                  | Calcification, Focal                                   |                                      |
| Liver                         |                                  | Cytoplasmic Change, Basophilic                         |                                      |
| Pituitary gland               |                                  | Adenoma, Nos                                           |                                      |
| Uterus                        |                                  | Endometrial Stromal Polyp                              |                                      |
|                               |                                  | Thrombosis, Nos                                        |                                      |
| <b>PRIMARY CAUSE OF DEATH</b> |                                  | -                                                      |                                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_041       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Adrenal gland          | Cortex Nos         | Hyperplasia, Nodular                     |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Intestine Small        | Mesentery Nos      | Lipoma                                   |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
| Pituitary gland        |                    | Cyst, Nos                                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_042       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
|                        |                    | Nephrosis, Nos                           |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                     |                                    |                        |
|------------------------|---------------------|------------------------------------|------------------------|
| ANIMAL ID: 3_043       | TRT#: 3<br>DOSE: 0  | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                     |                                    |                        |
| Adrenal gland          | Cortex Nos          | Hyperplasia, Nodular               |                        |
| Liver                  |                     | Metamorphosis, Fatty               |                        |
| Unspecified            | Multiple Organs Nos | Leukemia, Nos                      |                        |
| Uterus                 |                     | Endometrial Stromal Polyp          |                        |
| PRIMARY CAUSE OF DEATH | -                   |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                    |                        |
|------------------------|--------------------|------------------------------------|------------------------|
| ANIMAL ID: 3_044       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                    |                        |
| Kidney                 |                    | Mineralization                     |                        |
| Pituitary gland        |                    | Adenoma, Nos                       |                        |
| Spleen                 |                    | Hematopoiesis                      |                        |
| Stomach                |                    | Acanthosis                         |                        |
| Thyroid                |                    | C-Cell Adenoma                     |                        |
| Uterus                 |                    | Endometrial Stromal Sarcoma        |                        |
| PRIMARY CAUSE OF DEATH |                    | -                                  |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                    |                        |
|------------------------|--------------------|------------------------------------|------------------------|
| ANIMAL ID: 3_045       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Natural Death | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                    |                        |
| Heart                  | Pericardium Nos    | Inflammation, Acute                |                        |
| Lung                   | Pleura Nos         | Empyema                            |                        |
| Thymus                 |                    | Atrophy, Nos                       |                        |
| Uterus                 | Cervix Uteri       | Leiomyosarcoma                     |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                    |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_046       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Adrenal gland          |                    | Calcification, Focal                     |                        |
| Intestine Small        | Mesentery Nos      | Necrosis, Fat                            |                        |
| Kidney                 |                    | Nephrosis, Nos                           |                        |
| Liver                  |                    | Cytoplasmic Change, Basophilic           |                        |
|                        | Bile Duct          | Hyperplasia, Nos                         |                        |
| Pituitary gland        |                    | Vascularization                          |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_047       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Kidney                 |                    | Calcification, Focal                     |                        |
|                        |                    | Nephrosis, Nos                           |                        |
| Ovary                  |                    | Cyst, Nos                                |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_048       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Kidney                 |                    | Nephrosis, Nos                           |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
| Mammary gland          |                    | Fibroadenoma                             |                        |
|                        |                    | Galactoceles                             |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C50748  
Test Type: Long-Term  
Route: Dosed-Feed  
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Gum Arabic  
CAS Number: 9000-01-5

Date Report Requested: 10/26/2014  
Time Report Requested: 10:45:20  
First Dose M/F: NA / NA  
Lab: NA

|                        |                    |                                          |                        |
|------------------------|--------------------|------------------------------------------|------------------------|
| ANIMAL ID: 3_049       | TRT#: 3<br>DOSE: 0 | SEX: Female<br>DISP: Scheduled Sacrifice | DAY ON TEST:<br>HISTO: |
| OBSERVATIONS           |                    |                                          |                        |
| Adrenal gland          |                    | Pheochromocytoma                         |                        |
| Clitoral gland         |                    | Adenoma, Nos                             |                        |
| Heart                  | Myocardium Nos     | Degeneration, Nos                        |                        |
| Kidney                 |                    | Cyst, Nos                                |                        |
| Liver                  | Bile Duct          | Hyperplasia, Nos                         |                        |
| Pituitary gland        |                    | Adenoma, Nos                             |                        |
| Uterus                 |                    | Endometrial Stromal Polyp                |                        |
| PRIMARY CAUSE OF DEATH | -                  |                                          |                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C50748

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Gum Arabic

**CAS Number:** 9000-01-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:45:20

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_050

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Moribund Sacrifice

**DAY ON TEST:**

**HISTO:**

**OBSERVATIONS**

|                 |                     |                      |
|-----------------|---------------------|----------------------|
| Liver           |                     | Metamorphosis, Fatty |
| Pituitary gland |                     | Vascularization      |
| Unspecified     | Multiple Organs Nos | Leukemia, Nos        |

**PRIMARY CAUSE OF DEATH**

-

**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE