

**Experiment Number:** 95003-01  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**

**Test Compound:** Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 08:18:08

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

**Lab:** MBA

|                             |            |
|-----------------------------|------------|
| <b>C Number:</b>            | C95003B    |
| <b>Lock Date:</b>           | 01/08/2003 |
| <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>        | Both       |
| <b>PWG Approval Date</b>    | NONE       |

Experiment Number: 95003-01

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:08

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat MALE                 | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4%    |
|----------------------------------|-----------------|--------|-------|------|------|---------|
| <b>Disposition Summary</b>       |                 |        |       |      |      |         |
| Animals Initially In Study       | 10              | 10     | 10    | 10   | 10   | 10      |
| Scheduled Sacrifice              |                 |        |       |      |      |         |
| Early Deaths                     |                 |        |       |      |      |         |
| Accidentally Killed              |                 |        |       |      |      |         |
| Survivors                        |                 |        |       |      |      |         |
| Terminal Sacrifice               | 10              | 10     | 10    | 10   | 10   | 10      |
| Animals Examined Microscopically | 10              | 10     | 10    | 10   | 10   | 10      |
| <b>ALIMENTARY SYSTEM</b>         |                 |        |       |      |      |         |
| Esophagus                        | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Intestine Large, Cecum           | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Intestine Large, Colon           | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Intestine Large, Rectum          | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Intestine Small, Duodenum        | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Intestine Small, Ileum           | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Intestine Small, Jejunum         | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Liver                            | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Hepatodiaphragmatic Nodule       | 1 (10%)         |        |       |      |      |         |
| Vacuolization Cytoplasmic        | 1 (10%)         |        |       |      |      | 1 (10%) |
| Pancreas                         | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Salivary Glands                  | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Stomach, Forestomach             | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Stomach, Glandular               | (10)            | (10)   | (10)  | (10) | (10) | (10)    |
| Tongue                           | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| <b>CARDIOVASCULAR SYSTEM</b>     |                 |        |       |      |      |         |
| Blood Vessel                     | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Heart                            | (10)            | (0)    | (0)   | (0)  | (0)  | (10)    |
| Cardiomyopathy                   | 5 (50%)         |        |       |      |      | 6 (60%) |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:08

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat MALE                         | VEHICLE CONTROL | 0.025% | 0.05%   | 0.1%     | 0.2% | 0.4%    |
|--|-----------------|--------|---------|----------|------|---------|
| <b>ENDOCRINE SYSTEM</b>                  |                 |        |         |          |      |         |
| Adrenal Cortex                           | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Capsule, Thrombosis                      |                 |        |         |          |      | 1 (10%) |
| Adrenal Medulla                          | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Islets, Pancreatic                       | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Parathyroid Gland                        | (7)             | (0)    | (0)     | (0)      | (0)  | (9)     |
| Pituitary Gland                          | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Cyst                                     |                 |        |         |          |      | 1 (10%) |
| Thyroid Gland                            | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| <b>GENERAL BODY SYSTEM</b>               |                 |        |         |          |      |         |
| None                                     |                 |        |         |          |      |         |
| <b>GENITAL SYSTEM</b>                    |                 |        |         |          |      |         |
| Epididymis                               | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Aspermia                                 |                 |        |         |          |      | 1 (10%) |
| Preputial Gland                          | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Infiltration Cellular, Lymphocyte, Focal |                 |        |         |          |      | 1 (10%) |
| Prostate                                 | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Seminal Vesicle                          | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Testes                                   | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Germinal Epith, Atrophy                  |                 |        |         |          |      | 1 (10%) |
| <b>HEMATOPOIETIC SYSTEM</b>              |                 |        |         |          |      |         |
| Bone Marrow                              | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Lymph Node                               | (0)             | (0)    | (3)     | (1)      | (0)  | (0)     |
| Hyperplasia, Lymphoid                    |                 |        | 1 (33%) |          |      |         |
| Mediastinal, Congestion                  |                 |        | 1 (33%) | 1 (100%) |      |         |
| Mediastinal, Hyperplasia, Lymphoid       |                 |        | 2 (67%) | 1 (100%) |      |         |
| Lymph Node, Mesenteric                   | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |
| Spleen                                   | (10)            | (0)    | (0)     | (0)      | (0)  | (10)    |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat MALE                                       | VEHICLE CONTROL | 0.025%  | 0.05%   | 0.1%    | 0.2%      | 0.4%      |
|--|-----------------|---------|---------|---------|-----------|-----------|
| Thymus   | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| Atrophy  |                 |         |         |         |           | 1 (10%)   |
| Necrosis   | 2 (20%)         |         |         |         |           |           |
| INTEGUMENTARY SYSTEM                                   |                 |         |         |         |           |           |
| Skin   | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| MUSCULOSKELETAL SYSTEM                                 |                 |         |         |         |           |           |
| Bone   | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| NERVOUS SYSTEM   |                 |         |         |         |           |           |
| Brain  | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| RESPIRATORY SYSTEM                                     |                 |         |         |         |           |           |
| Lung   | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| Bronchiole, Infiltration Cellular, Lymphocyte, Focal   | 1 (10%)         |         |         |         |           |           |
| Perivascular, Infiltration Cellular, Lymphocyte, Focal | 2 (20%)         |         |         |         |           |           |
| Nose   | (10)            | (10)    | (10)    | (10)    | (10)      | (10)      |
| Goblet Cell, Respirat Epith, Hyperplasia               |                 | 4 (40%) | 3 (30%) | 4 (40%) | 3 (30%)   | 9 (90%)   |
| Trachea  | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| SPECIAL SENSES SYSTEM                                  |                 |         |         |         |           |           |
| Eye  | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| Harderian Gland  | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |
| URINARY SYSTEM   |                 |         |         |         |           |           |
| Kidney   | (10)            | (10)    | (10)    | (10)    | (10)      | (10)      |
| Nephropathy  | 6 (60%)         | 8 (80%) | 8 (80%) | 9 (90%) | 10 (100%) | 10 (100%) |
| Urinary Bladder  | (10)            | (0)     | (0)     | (0)     | (0)       | (10)      |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat MALE                 | CONTROL SPECIAL | 0.025% SPECIAL | 0.05% SPECIAL | 0.1% SPECIAL | 0.2% SPECIAL | 0.4% SPECIAL |
|----------------------------------|-----------------|----------------|---------------|--------------|--------------|--------------|
| <b>Disposition Summary</b>       |                 |                |               |              |              |              |
| Animals Initially In Study       | 10              | 10             | 10            | 10           | 10           | 10           |
| Scheduled Sacrifice              | 10              | 8              | 10            | 9            | 10           | 10           |
| Early Deaths                     |                 |                |               |              |              |              |
| Accidentally Killed              |                 | 2              |               | 1            |              |              |
| Survivors                        |                 |                |               |              |              |              |
| Terminal Sacrifice               |                 |                |               |              |              |              |
| Animals Examined Microscopically |                 |                |               |              |              |              |
| <b>ALIMENTARY SYSTEM</b>         |                 |                |               |              |              |              |
| Esophagus                        | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Large, Cecum           | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Large, Colon           | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Large, Rectum          | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Small, Duodenum        | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Small, Ileum           | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Small, Jejunum         | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Liver                            | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Hepatodiaphragmatic Nodule       |                 |                |               |              |              |              |
| Vacuolization Cytoplasmic        |                 |                |               |              |              |              |
| Pancreas                         | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Salivary Glands                  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Stomach, Forestomach             | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Stomach, Glandular               | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Tongue                           | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| <b>CARDIOVASCULAR SYSTEM</b>     |                 |                |               |              |              |              |
| Blood Vessel                     | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Heart                            | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Cardiomyopathy                   |                 |                |               |              |              |              |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat MALE                         | CONTROL SPECIAL | 0.025% SPECIAL | 0.05% SPECIAL | 0.1% SPECIAL | 0.2% SPECIAL | 0.4% SPECIAL |
|--|-----------------|----------------|---------------|--------------|--------------|--------------|
| <b>ENDOCRINE SYSTEM</b>                  |                 |                |               |              |              |              |
| Adrenal Cortex                           | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Capsule, Thrombosis                      |                 |                |               |              |              |              |
| Adrenal Medulla                          | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Islets, Pancreatic                       | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Parathyroid Gland                        | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Pituitary Gland                          | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Cyst                                     |                 |                |               |              |              |              |
| Thyroid Gland                            | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| <b>GENERAL BODY SYSTEM</b>               |                 |                |               |              |              |              |
| None                                     |                 |                |               |              |              |              |
| <b>GENITAL SYSTEM</b>                    |                 |                |               |              |              |              |
| Epididymis                               | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Aspermia                                 |                 |                |               |              |              |              |
| Preputial Gland                          | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Infiltration Cellular, Lymphocyte, Focal |                 |                |               |              |              |              |
| Prostate                                 | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Seminal Vesicle                          | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Testes                                   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Germinal Epith, Atrophy                  |                 |                |               |              |              |              |
| <b>HEMATOPOIETIC SYSTEM</b>              |                 |                |               |              |              |              |
| Bone Marrow                              | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Lymph Node                               | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Hyperplasia, Lymphoid                    |                 |                |               |              |              |              |
| Mediastinal, Congestion                  |                 |                |               |              |              |              |
| Mediastinal, Hyperplasia, Lymphoid       |                 |                |               |              |              |              |
| Lymph Node, Mesenteric                   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Spleen                                   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat MALE   | CONTROL SPECIAL | 0.025% SPECIAL | 0.05% SPECIAL | 0.1% SPECIAL | 0.2% SPECIAL | 0.4% SPECIAL |
|--|-----------------|----------------|---------------|--------------|--------------|--------------|
| Thymus<br>Atrophy<br>Necrosis  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| INTEGUMENTARY SYSTEM   |                 |                |               |              |              |              |
| Skin   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| MUSCULOSKELETAL SYSTEM   |                 |                |               |              |              |              |
| Bone   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| NERVOUS SYSTEM   |                 |                |               |              |              |              |
| Brain  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| RESPIRATORY SYSTEM   |                 |                |               |              |              |              |
| Lung<br>Bronchiole, Infiltration Cellular, Lymphocyte, Focal<br>Perivascular, Infiltration Cellular, Lymphocyte, Focal | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Nose<br>Goblet Cell, Respirat Epith, Hyperplasia   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Trachea  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| SPECIAL SENSES SYSTEM  |                 |                |               |              |              |              |
| Eye<br>Harderian Gland   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| URINARY SYSTEM   |                 |                |               |              |              |              |
| Kidney<br>Nephropathy  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Urinary Bladder  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |

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

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

Experiment Number: 95003-01

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**

Date Report Requested: 10/23/2014

Test Type: 90-DAY

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Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat FEMALE                    | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2%     | 0.4% |
|---------------------------------------|-----------------|--------|-------|------|----------|------|
| <b>Disposition Summary</b>            |                 |        |       |      |          |      |
| Animals Initially In Study            | 10              | 10     | 10    | 10   | 10       | 10   |
| Scheduled Sacrifice                   |                 |        |       |      |          |      |
| Early Deaths                          |                 |        |       |      |          |      |
| Accidentally Killed                   |                 |        |       |      |          |      |
| Survivors                             |                 |        |       |      |          |      |
| Terminal Sacrifice                    | 10              | 10     | 10    | 10   | 10       | 10   |
| Animals Examined Microscopically      | 10              | 10     | 10    | 10   | 10       | 10   |
| <b>ALIMENTARY SYSTEM</b>              |                 |        |       |      |          |      |
| Esophagus                             | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Intestine Large, Cecum                | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Intestine Large, Colon                | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Intestine Large, Rectum               | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Intestine Small, Duodenum             | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Intestine Small, Ileum                | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Intestine Small, Jejunum              | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Liver                                 | (10)            | (0)    | (0)   | (0)  | (1)      | (10) |
| Hepatodiaphragmatic Nodule            |                 |        |       |      | 1 (100%) |      |
| Infiltration Cellular, Mononuclear CI | 2 (20%)         |        |       |      |          |      |
| Pancreas                              | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Atrophy                               | 1 (10%)         |        |       |      |          |      |
| Salivary Glands                       | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Stomach, Forestomach                  | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Stomach, Glandular                    | (10)            | (10)   | (10)  | (10) | (10)     | (10) |
| Tongue                                | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| <b>CARDIOVASCULAR SYSTEM</b>          |                 |        |       |      |          |      |
| Blood Vessel                          | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Heart                                 | (10)            | (0)    | (0)   | (0)  | (0)      | (10) |
| Cardiomyopathy                        | 1 (10%)         |        |       |      |          |      |

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



Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat FEMALE                 | VEHICLE CONTROL | 0.025%   | 0.05%    | 0.1%     | 0.2%     | 0.4%     |
|------------------------------------|-----------------|----------|----------|----------|----------|----------|
| <b>ENDOCRINE SYSTEM</b>            |                 |          |          |          |          |          |
| Adrenal Cortex                     | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Adrenal Medulla                    | (10)            | (0)      | (0)      | (0)      | (0)      | (9)      |
| Islets, Pancreatic                 | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Parathyroid Gland                  | (8)             | (0)      | (0)      | (0)      | (0)      | (4)      |
| Pituitary Gland                    | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Thyroid Gland                      | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Ectopic Thymus                     | 1 (10%)         |          |          |          |          |          |
| <b>GENERAL BODY SYSTEM</b>         |                 |          |          |          |          |          |
| Tissue NOS                         | (0)             | (0)      | (0)      | (0)      | (0)      | (1)      |
| Abdominal, Fat, Necrosis, Focal    |                 |          |          |          |          | 1 (100%) |
| <b>GENITAL SYSTEM</b>              |                 |          |          |          |          |          |
| Clitoral Gland                     | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Ovary                              | (10)            | (1)      | (2)      | (1)      | (2)      | (10)     |
| Cyst                               |                 |          | 1 (50%)  | 1 (100%) | 1 (50%)  |          |
| Uterus                             | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Hydrometra                         | 1 (10%)         |          |          |          |          | 3 (30%)  |
| <b>HEMATOPOIETIC SYSTEM</b>        |                 |          |          |          |          |          |
| Bone Marrow                        | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Lymph Node                         | (1)             | (2)      | (2)      | (2)      | (3)      | (2)      |
| Mediastinal, Congestion            | 1 (100%)        | 2 (100%) | 2 (100%) | 1 (50%)  | 3 (100%) |          |
| Mediastinal, Hyperplasia           |                 |          |          |          |          | 1 (50%)  |
| Mediastinal, Hyperplasia, Lymphoid | 1 (100%)        | 2 (100%) | 2 (100%) | 2 (100%) | 3 (100%) |          |
| Lymph Node, Mandibular             | (2)             | (0)      | (0)      | (0)      | (0)      | (0)      |
| Lymph Node, Mesenteric             | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Necrosis, Lymphoid                 |                 |          |          |          |          | 1 (10%)  |
| Spleen                             | (10)            | (0)      | (0)      | (0)      | (0)      | (10)     |
| Necrosis, Lymphoid                 |                 |          |          |          |          | 2 (20%)  |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat FEMALE                       | VEHICLE CONTROL | 0.025%  | 0.05%   | 0.1%    | 0.2%    | 0.4%    |
|--|-----------------|---------|---------|---------|---------|---------|
| Thymus                                   | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| Atrophy                                  | 4 (40%)         |         |         |         |         | 4 (40%) |
| Necrosis                                 | 6 (60%)         |         |         |         |         | 6 (60%) |
| INTEGUMENTARY SYSTEM                     |                 |         |         |         |         |         |
| Mammary Gland                            | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| Skin                                     | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| MUSCULOSKELETAL SYSTEM                   |                 |         |         |         |         |         |
| Bone                                     | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| NERVOUS SYSTEM                           |                 |         |         |         |         |         |
| Brain                                    | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| RESPIRATORY SYSTEM                       |                 |         |         |         |         |         |
| Lung                                     | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| Hemorrhage, Focal                        | 1 (10%)         |         |         |         |         |         |
| Inflammation, Chronic                    |                 |         |         |         |         | 1 (10%) |
| Nose                                     | (10)            | (10)    | (10)    | (10)    | (10)    | (10)    |
| Goblet Cell, Respirat Epith, Hyperplasia | 3 (30%)         |         | 3 (30%) | 3 (30%) | 3 (30%) | 7 (70%) |
| Respirat Epith, Inflammation, Acute      |                 |         |         |         | 1 (10%) |         |
| Trachea                                  | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| SPECIAL SENSES SYSTEM                    |                 |         |         |         |         |         |
| Eye                                      | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| Harderian Gland                          | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |
| URINARY SYSTEM                           |                 |         |         |         |         |         |
| Kidney                                   | (10)            | (10)    | (10)    | (10)    | (10)    | (10)    |
| Congestion                               |                 |         |         |         |         | 1 (10%) |
| Nephropathy                              | 1 (10%)         |         |         |         |         |         |
| Renal Tubule, Necrosis                   | 3 (30%)         | 2 (20%) | 2 (20%) | 2 (20%) | 1 (10%) | 3 (30%) |
| Urinary Bladder                          | (10)            | (0)     | (0)     | (0)     | (0)     | (10)    |

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

**Experiment Number:** 95003-01

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**

**Test Compound:** Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 08:18:09

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

**Lab:** MBA

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|                           |                        |               |              |             |             |             |
|---------------------------|------------------------|---------------|--------------|-------------|-------------|-------------|
| <b>F 344/N Rat FEMALE</b> | <b>VEHICLE CONTROL</b> | <b>0.025%</b> | <b>0.05%</b> | <b>0.1%</b> | <b>0.2%</b> | <b>0.4%</b> |
|---------------------------|------------------------|---------------|--------------|-------------|-------------|-------------|

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat FEMALE                    | CONTROL SPECIAL | 0.025% SPECIAL | 0.05% SPECIAL | 0.1% SPECIAL | 0.2% SPECIAL | 0.4% SPECIAL |
|---------------------------------------|-----------------|----------------|---------------|--------------|--------------|--------------|
| <b>Disposition Summary</b>            |                 |                |               |              |              |              |
| Animals Initially In Study            | 10              | 10             | 10            | 10           | 10           | 10           |
| Scheduled Sacrifice                   | 10              | 10             | 10            | 10           | 10           | 9            |
| Early Deaths                          |                 |                |               |              |              |              |
| Accidentally Killed                   |                 |                |               |              |              | 1            |
| Survivors                             |                 |                |               |              |              |              |
| Terminal Sacrifice                    |                 |                |               |              |              |              |
| Animals Examined Microscopically      |                 |                |               |              |              |              |
| <b>ALIMENTARY SYSTEM</b>              |                 |                |               |              |              |              |
| Esophagus                             | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Large, Cecum                | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Large, Colon                | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Large, Rectum               | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Small, Duodenum             | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Small, Ileum                | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Intestine Small, Jejunum              | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Liver                                 | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Hepatodiaphragmatic Nodule            |                 |                |               |              |              |              |
| Infiltration Cellular, Mononuclear CI |                 |                |               |              |              |              |
| Pancreas                              | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Atrophy                               |                 |                |               |              |              |              |
| Salivary Glands                       | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Stomach, Forestomach                  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Stomach, Glandular                    | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Tongue                                | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| <b>CARDIOVASCULAR SYSTEM</b>          |                 |                |               |              |              |              |
| Blood Vessel                          | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Heart                                 | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Cardiomyopathy                        |                 |                |               |              |              |              |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat FEMALE                 | CONTROL SPECIAL | 0.025% SPECIAL | 0.05% SPECIAL | 0.1% SPECIAL | 0.2% SPECIAL | 0.4% SPECIAL |
|------------------------------------|-----------------|----------------|---------------|--------------|--------------|--------------|
| <b>ENDOCRINE SYSTEM</b>            |                 |                |               |              |              |              |
| Adrenal Cortex                     | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Adrenal Medulla                    | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Islets, Pancreatic                 | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Parathyroid Gland                  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Pituitary Gland                    | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Thyroid Gland                      | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Ectopic Thymus                     |                 |                |               |              |              |              |
| <b>GENERAL BODY SYSTEM</b>         |                 |                |               |              |              |              |
| Tissue NOS                         | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Abdominal, Fat, Necrosis, Focal    |                 |                |               |              |              |              |
| <b>GENITAL SYSTEM</b>              |                 |                |               |              |              |              |
| Clitoral Gland                     | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Ovary                              | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Cyst                               |                 |                |               |              |              |              |
| Uterus                             | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Hydrometra                         |                 |                |               |              |              |              |
| <b>HEMATOPOIETIC SYSTEM</b>        |                 |                |               |              |              |              |
| Bone Marrow                        | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Lymph Node                         | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Mediastinal, Congestion            |                 |                |               |              |              |              |
| Mediastinal, Hyperplasia           |                 |                |               |              |              |              |
| Mediastinal, Hyperplasia, Lymphoid |                 |                |               |              |              |              |
| Lymph Node, Mandibular             | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Lymph Node, Mesenteric             | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Necrosis, Lymphoid                 |                 |                |               |              |              |              |
| Spleen                             | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Necrosis, Lymphoid                 |                 |                |               |              |              |              |

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

Experiment Number: 95003-01

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Date Report Requested: 10/23/2014

Test Type: 90-DAY

Test Compound: Methyl trans-styryl ketone

Time Report Requested: 08:18:09

Route: DOSED FEED

CAS Number: 1896-62-4

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

| F 344/N Rat FEMALE  | CONTROL SPECIAL | 0.025% SPECIAL | 0.05% SPECIAL | 0.1% SPECIAL | 0.2% SPECIAL | 0.4% SPECIAL |
|---|-----------------|----------------|---------------|--------------|--------------|--------------|
| Thymus<br>Atrophy<br>Necrosis   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| INTEGUMENTARY SYSTEM  |                 |                |               |              |              |              |
| Mammary Gland   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Skin  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| MUSCULOSKELETAL SYSTEM  |                 |                |               |              |              |              |
| Bone  | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| NERVOUS SYSTEM  |                 |                |               |              |              |              |
| Brain   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| RESPIRATORY SYSTEM  |                 |                |               |              |              |              |
| Lung<br>Hemorrhage, Focal<br>Inflammation, Chronic                                      | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Nose<br>Goblet Cell, Respirat Epith, Hyperplasia<br>Respirat Epith, Inflammation, Acute | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Trachea   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| SPECIAL SENSES SYSTEM   |                 |                |               |              |              |              |
| Eye   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Harderian Gland   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| URINARY SYSTEM  |                 |                |               |              |              |              |
| Kidney<br>Congestion<br>Nephropathy<br>Renal Tubule, Necrosis                           | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |
| Urinary Bladder   | (0)             | (0)            | (0)           | (0)          | (0)          | (0)          |

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

**Experiment Number:** 95003-01  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**  
**Test Compound:** Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:18:09  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**F 344/N Rat FEMALE**

**CONTROL SPECIAL**

**0.025% SPECIAL**

**0.05% SPECIAL**

**0.1% SPECIAL**

**0.2% SPECIAL**

**0.4% SPECIAL**

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