

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone
CAS Number: 1896-62-4

Date Report Requested: 08/30/2016
Time Report Requested: 14:33:52
First Dose M/F: 12/17/01 / 12/18/01
Lab: MBA

NTP Study Number: C95003B
Lock Date: 01/08/2003
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF METHYL TRANS-STYRYL KETONE

MALE RATS

Organ

Kidney

Nose: Goblet Cell, Respiratory Epithelium

FEMALE RATS

Organ

Kidney

Liver

Lymph Node: Mediastinal

Nose: Goblet Cell, Respiratory Epithelium

Ovary

Morphology

Nephropathy

Hyperplasia

Morphology

Congestion

Nephropathy

Hepatodiaphragmatic Nodule

Congestion

Hyperplasia Lymphoid

Hyperplasia

Cyst

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|---|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Adrenal Cortex: Capsule Thrombosis | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Epididymis | | | | | | |
| Aspermia | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Heart | | | | | | |
| Cardiomyopathy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 5/10 (50%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 6/10 (60%) |
| POLY-3 RATE (b) | 5/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 6/10.00 |
| POLY-3 PERCENT (g) | 50% | 0% | 0% | 0% | 0% | 60% |
| TERMINAL (d) | 5/10 (50%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 6/10 (60%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.411 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.332 |

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Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|--------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Kidney Congestion | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|---------------------------|-----------------|------------|------------|------------|--------------|--------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Kidney Nephropathy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 6/10 (60%) | 8/10 (80%) | 8/10 (80%) | 9/10 (90%) | 10/10 (100%) | 10/10 (100%) |
| POLY-3 RATE (b) | 6/10.00 | 8/10.00 | 8/10.00 | 9/10.00 | 10/10.00 | 10/10.00 |
| POLY-3 PERCENT (g) | 60% | 80% | 80% | 90% | 100% | 100% |
| TERMINAL (d) | 6/10 (60%) | 8/10 (80%) | 8/10 (80%) | 9/10 (90%) | 10/10 (100%) | 10/10 (100%) |
| FIRST INCIDENCE | 92 (T) | 92 (T) | 92 (T) | 92 (T) | 92 (T) | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.014* | P=0.318 | P=0.318 | P=0.148 | P=0.033* | P=0.033* |
| POLY 1.5 | P=0.014* | P=0.318 | P=0.318 | P=0.148 | P=0.033* | P=0.033* |
| POLY 6 | P=0.014* | P=0.318 | P=0.318 | P=0.148 | P=0.033* | P=0.033* |
| COCH-ARM / FISHERS | P=0.016* | P=0.314 | P=0.314 | P=0.152 | P=0.043* | P=0.043* |
| MAX-ISO-POLY-3 | P=0.005** | P=0.172 | P=0.172 | P=0.058 | P=0.007** | P=0.007** |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--|-----------------|-----------|-----------|-----------|-----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Kidney: Renal Tubule Necrosis | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|-----------------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Liver | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| COCH-ARM / FISHERS | P=0.304N | (e) | (e) | (e) | (e) | P=0.500N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158N |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|---|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Liver | | | | | | |
| Infiltration Cellular Mononuclear Cell | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|----------------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Liver | | | | | | |
| Vacuolization Cytoplasmic | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.760 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.760 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.760 |
| COCH-ARM / FISHERS | P=0.645 | (e) | (e) | (e) | (e) | P=0.763N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=1.000 |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung | | | | | | |
| Hemorrhage Focal | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|-----------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung | | | | | | |
| Inflammation Chronic | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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Species/Strain: RATS/F 344/N

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First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|--|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung: Bronchiole Infiltration Cellular Focal Lymphocyte | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| COCH-ARM / FISHERS | P=0.304N | (e) | (e) | (e) | (e) | P=0.500N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung: Perivascular Infiltration Cellular Focal Lymphocyte | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 2/10 (20%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 2/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 20% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 2/10 (20%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.227N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.227N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.227N |
| COCH-ARM / FISHERS | P=0.132N | (e) | (e) | (e) | (e) | P=0.237N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.066N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|-----------------------------|-----------------|----------|-----------|----------|----------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node | | | | | | |
| Hyperplasia Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/0 (0%) | 0/0 (0%) | 1/3 (33%) | 0/1 (0%) | 0/0 (0%) | 0/0 (0%) |
| POLY-3 RATE (b) | 0/0.00 | 0/0.00 | 1/3.00 | 0/1.00 | 0/0.00 | 0/0.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 33.3% | 0% | 0% | 0% |
| TERMINAL (d) | 0/0 (0%) | 0/0 (0%) | 1/3 (33%) | 0/1 (0%) | 0/0 (0%) | 0/0 (0%) |
| FIRST INCIDENCE | --- | --- | 92 (T) | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | (e) |
| COCH-ARM / FISHERS | P=1.000N | (e) | (e) | (e) | (e) | (e) |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | (e) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|---|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node, Mesenteric Necrosis Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|---|-----------------|----------|-----------|------------|----------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node: Mediastinal Congestion | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/0 (0%) | 0/0 (0%) | 1/3 (33%) | 1/1 (100%) | 0/0 (0%) | 0/0 (0%) |
| POLY-3 RATE (b) | 0/0.00 | 0/0.00 | 1/3.00 | 1/1.00 | 0/0.00 | 0/0.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 33.3% | 100% | 0% | 0% |
| TERMINAL (d) | 0/0 (0%) | 0/0 (0%) | 1/3 (33%) | 1/1 (100%) | 0/0 (0%) | 0/0 (0%) |
| FIRST INCIDENCE | --- | --- | 92 (T) | 92 (T) | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | (e) |
| COCH-ARM / FISHERS | P=1.000 | (e) | (e) | (e) | (e) | (e) |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | (e) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--|-----------------|----------|----------|----------|----------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node: Mediastinal Hyperplasia | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/0 (0%) | 0/0 (0%) | 0/3 (0%) | 0/1 (0%) | 0/0 (0%) | 0/0 (0%) |
| POLY-3 RATE (b) | 0/0.00 | 0/0.00 | 0/3.00 | 0/1.00 | 0/0.00 | 0/0.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/0 (0%) | 0/0 (0%) | 0/3 (0%) | 0/1 (0%) | 0/0 (0%) | 0/0 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|---|-----------------|----------|-----------|------------|----------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node: Mediastinal Hyperplasia Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/0 (0%) | 0/0 (0%) | 2/3 (67%) | 1/1 (100%) | 0/0 (0%) | 0/0 (0%) |
| POLY-3 RATE (b) | 0/0.00 | 0/0.00 | 2/3.00 | 1/1.00 | 0/0.00 | 0/0.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 66.7% | 100% | 0% | 0% |
| TERMINAL (d) | 0/0 (0%) | 0/0 (0%) | 2/3 (67%) | 1/1 (100%) | 0/0 (0%) | 0/0 (0%) |
| FIRST INCIDENCE | --- | --- | 92 (T) | 92 (T) | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | (e) |
| COCH-ARM / FISHERS | P=1.000 | (e) | (e) | (e) | (e) | (e) |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | (e) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--|-----------------|------------|------------|------------|------------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Nose: Goblet Cell, Respiratory Epithelium Hyperplasia | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 4/10 (40%) | 3/10 (30%) | 4/10 (40%) | 3/10 (30%) | 9/10 (90%) |
| POLY-3 RATE (b) | 0/10.00 | 4/10.00 | 3/10.00 | 4/10.00 | 3/10.00 | 9/10.00 |
| POLY-3 PERCENT (g) | 0% | 40% | 30% | 40% | 30% | 90% |
| TERMINAL (d) | 0/10 (0%) | 4/10 (40%) | 3/10 (30%) | 4/10 (40%) | 3/10 (30%) | 9/10 (90%) |
| FIRST INCIDENCE | --- | 92 (T) | 92 (T) | 92 (T) | 92 (T) | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P<0.001** | P=0.033* | P=0.095 | P=0.033* | P=0.095 | P<0.001** |
| POLY 1.5 | P<0.001** | P=0.033* | P=0.095 | P=0.033* | P=0.095 | P<0.001** |
| POLY 6 | P<0.001** | P=0.033* | P=0.095 | P=0.033* | P=0.095 | P<0.001** |
| COCH-ARM / FISHERS | P<0.001** | P=0.043* | P=0.105 | P=0.043* | P=0.105 | P<0.001** |
| MAX-ISO-POLY-3 | P<0.001** | P=0.007** | P=0.025* | P=0.007** | P=0.025* | P<0.001** |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--|-----------------|-----------|-----------|-----------|-----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Nose: Respiratory Epithelium Inflammation Acute | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Pancreas Atrophy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|-----------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Pituitary Gland Cyst | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|---|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Preputial Gland Infiltration Cellular Focal Lymphocyte | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Spleen | | | | | | |
| Necrosis Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Testes: Germinal Epithelium Atrophy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Thymus Atrophy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Thymus Necrosis | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 2/10 (20%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 2/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 20% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 2/10 (20%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.227N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.227N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.227N |
| COCH-ARM / FISHERS | P=0.132N | (e) | (e) | (e) | (e) | P=0.237N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.066N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Thyroid Gland | | | | | | |
| Ectopic Thymus | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Males | | | | | |
|--|-----------------|----------|----------|----------|----------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Tissue NOS: Abdominal, Fat Necrosis Focal | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) |
| POLY-3 RATE (b) | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|---|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Adrenal Cortex: Capsule Thrombosis | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Heart | | | | | | |
| Cardiomyopathy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| COCH-ARM / FISHERS | P=0.304N | (e) | (e) | (e) | (e) | P=0.500N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------|-----------------|-----------|-----------|-----------|-----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Kidney Congestion | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.107 | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | P=0.107 | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | P=0.107 | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.105 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | P=0.041* | (e) | (e) | (e) | (e) | P=0.158 |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|---------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Kidney Nephropathy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.416N | P=0.500N | P=0.500N | P=0.500N | P=0.500N | P=0.500N |
| POLY 1.5 | P=0.416N | P=0.500N | P=0.500N | P=0.500N | P=0.500N | P=0.500N |
| POLY 6 | P=0.416N | P=0.500N | P=0.500N | P=0.500N | P=0.500N | P=0.500N |
| COCH-ARM / FISHERS | P=0.415N | P=0.500N | P=0.500N | P=0.500N | P=0.500N | P=0.500N |
| MAX-ISO-POLY-3 | P=0.041N* | P=0.158N | P=0.158N | P=0.158N | P=0.158N | P=0.158N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--|-----------------|------------|------------|------------|------------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Kidney: Renal Tubule Necrosis | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 3/10 (30%) | 2/10 (20%) | 2/10 (20%) | 2/10 (20%) | 1/10 (10%) | 3/10 (30%) |
| POLY-3 RATE (b) | 3/10.00 | 2/10.00 | 2/10.00 | 2/10.00 | 1/10.00 | 3/10.00 |
| POLY-3 PERCENT (g) | 30% | 20% | 20% | 20% | 10% | 30% |
| TERMINAL (d) | 3/10 (30%) | 2/10 (20%) | 2/10 (20%) | 2/10 (20%) | 1/10 (10%) | 3/10 (30%) |
| FIRST INCIDENCE | 92 (T) | 92 (T) | 92 (T) | 92 (T) | 92 (T) | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.526 | P=0.500N | P=0.500N | P=0.500N | P=0.292N | P=0.678 |
| POLY 1.5 | P=0.526 | P=0.500N | P=0.500N | P=0.500N | P=0.292N | P=0.678 |
| POLY 6 | P=0.526 | P=0.500N | P=0.500N | P=0.500N | P=0.292N | P=0.678 |
| COCH-ARM / FISHERS | P=0.527 | P=0.500N | P=0.500N | P=0.500N | P=0.291N | P=0.686N |
| MAX-ISO-POLY-3 | P=0.300N | P=0.310N | P=0.310N | P=0.310N | P=0.136N | P=1.000 |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|-----------------------------------|-----------------|----------|----------|----------|------------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Liver | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/1 (100%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/1.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 100% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/1 (100%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | 92 (T) | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | P=0.091 | (e) |
| POLY 1.5 | (e) | (e) | (e) | (e) | P=0.091 | (e) |
| POLY 6 | (e) | (e) | (e) | (e) | P=0.091 | (e) |
| COCH-ARM / FISHERS | P=0.700 | (e) | (e) | (e) | P=0.091 | (e) |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | P<0.001** | (e) |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Females | | | | | |
|---|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Liver | | | | | | |
| Infiltration Cellular Mononuclear Cell | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 2/10 (20%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/1 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 2/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/1.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 20% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 2/10 (20%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/1 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | P=0.786N | P=0.227N |
| POLY 1.5 | (e) | (e) | (e) | (e) | P=0.786N | P=0.227N |
| POLY 6 | (e) | (e) | (e) | (e) | P=0.786N | P=0.227N |
| COCH-ARM / FISHERS | P=0.127N | (e) | (e) | (e) | P=0.818N | P=0.237N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | P=0.366N | P=0.066N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|----------------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Liver | | | | | | |
| Vacuolization Cytoplasmic | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/1 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/1.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/1 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung | | | | | | |
| Hemorrhage Focal | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| COCH-ARM / FISHERS | P=0.304N | (e) | (e) | (e) | (e) | P=0.500N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158N |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung Inflammation Chronic | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung: Bronchiole Infiltration Cellular Focal Lymphocyte | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lung: Perivascular Infiltration Cellular Focal Lymphocyte | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|-----------------------------|-----------------|----------|----------|----------|----------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node | | | | | | |
| Hyperplasia Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/1 (0%) | 0/2 (0%) | 0/2 (0%) | 0/2 (0%) | 0/3 (0%) | 0/2 (0%) |
| POLY-3 RATE (b) | 0/1.00 | 0/2.00 | 0/2.00 | 0/2.00 | 0/3.00 | 0/2.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/1 (0%) | 0/2 (0%) | 0/2 (0%) | 0/2 (0%) | 0/3 (0%) | 0/2 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|---|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node, Mesenteric Necrosis Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 10% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/10 (10%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500 |
| COCH-ARM / FISHERS | P=0.304 | (e) | (e) | (e) | (e) | P=0.500 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158 |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|---|-----------------|------------|------------|-----------|------------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node: Mediastinal Congestion | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/1 (100%) | 2/2 (100%) | 2/2 (100%) | 1/2 (50%) | 3/3 (100%) | 0/2 (0%) |
| POLY-3 RATE (b) | 1/1.00 | 2/2.00 | 2/2.00 | 1/2.00 | 3/3.00 | 0/2.00 |
| POLY-3 PERCENT (g) | 100% | 100% | 100% | 50% | 100% | 0% |
| TERMINAL (d) | 1/1 (100%) | 2/2 (100%) | 2/2 (100%) | 1/2 (50%) | 3/3 (100%) | 0/2 (0%) |
| FIRST INCIDENCE | 92 (T) | 92 (T) | 92 (T) | 92 (T) | 92 (T) | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.003N** | (e) | (e) | P=0.614N | (e) | P=0.333N |
| POLY 1.5 | P=0.003N** | (e) | (e) | P=0.614N | (e) | P=0.333N |
| POLY 6 | P=0.003N** | (e) | (e) | P=0.614N | (e) | P=0.333N |
| COCH-ARM / FISHERS | P=0.034N* | (e) | (e) | P=0.667N | (e) | P=0.333N |
| MAX-ISO-POLY-3 | P=0.003N** | (e) | (e) | P=0.307N | (e) | (e) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node: Mediastinal Hyperplasia | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/1 (0%) | 0/2 (0%) | 0/2 (0%) | 0/2 (0%) | 0/3 (0%) | 1/2 (50%) |
| POLY-3 RATE (b) | 0/1.00 | 0/2.00 | 0/2.00 | 0/2.00 | 0/3.00 | 1/2.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 50% |
| TERMINAL (d) | 0/1 (0%) | 0/2 (0%) | 0/2 (0%) | 0/2 (0%) | 0/3 (0%) | 1/2 (50%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.123 | (e) | (e) | (e) | (e) | P=0.614 |
| POLY 1.5 | P=0.123 | (e) | (e) | (e) | (e) | P=0.614 |
| POLY 6 | P=0.123 | (e) | (e) | (e) | (e) | P=0.614 |
| COCH-ARM / FISHERS | P=0.112 | (e) | (e) | (e) | (e) | P=0.667 |
| MAX-ISO-POLY-3 | P=0.109 | (e) | (e) | (e) | (e) | P=0.307 |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|---|-----------------|------------|------------|------------|------------|----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Lymph Node: Mediastinal Hyperplasia Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/1 (100%) | 2/2 (100%) | 2/2 (100%) | 2/2 (100%) | 3/3 (100%) | 0/2 (0%) |
| POLY-3 RATE (b) | 1/1.00 | 2/2.00 | 2/2.00 | 2/2.00 | 3/3.00 | 0/2.00 |
| POLY-3 PERCENT (g) | 100% | 100% | 100% | 100% | 100% | 0% |
| TERMINAL (d) | 1/1 (100%) | 2/2 (100%) | 2/2 (100%) | 2/2 (100%) | 3/3 (100%) | 0/2 (0%) |
| FIRST INCIDENCE | 92 (T) | 92 (T) | 92 (T) | 92 (T) | 92 (T) | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.009N** | (e) | (e) | (e) | (e) | P=0.333N |
| POLY 1.5 | P=0.009N** | (e) | (e) | (e) | (e) | P=0.333N |
| POLY 6 | P=0.009N** | (e) | (e) | (e) | (e) | P=0.333N |
| COCH-ARM / FISHERS | P=0.009N** | (e) | (e) | (e) | (e) | P=0.333N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | (e) |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Females | | | | | |
|--|-----------------|-----------|------------|------------|------------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Nose: Goblet Cell, Respiratory Epithelium Hyperplasia | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 3/10 (30%) | 0/10 (0%) | 3/10 (30%) | 3/10 (30%) | 3/10 (30%) | 7/10 (70%) |
| POLY-3 RATE (b) | 3/10.00 | 0/10.00 | 3/10.00 | 3/10.00 | 3/10.00 | 7/10.00 |
| POLY-3 PERCENT (g) | 30% | 0% | 30% | 30% | 30% | 70% |
| TERMINAL (d) | 3/10 (30%) | 0/10 (0%) | 3/10 (30%) | 3/10 (30%) | 3/10 (30%) | 7/10 (70%) |
| FIRST INCIDENCE | 92 (T) | --- | 92 (T) | 92 (T) | 92 (T) | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.003** | P=0.095N | P=0.678 | P=0.678 | P=0.678 | P=0.082 |
| POLY 1.5 | P=0.003** | P=0.095N | P=0.678 | P=0.678 | P=0.678 | P=0.082 |
| POLY 6 | P=0.003** | P=0.095N | P=0.678 | P=0.678 | P=0.678 | P=0.082 |
| COCH-ARM / FISHERS | P=0.004** | P=0.105N | P=0.686N | P=0.686N | P=0.686N | P=0.089 |
| MAX-ISO-POLY-3 | P=0.002** | P=0.025N* | P=1.000 | P=1.000 | P=1.000 | P=0.032* |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--|-----------------|-----------|-----------|-----------|------------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Nose: Respiratory Epithelium Inflammation Acute | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 1/10 (10%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/10.00 | 0/10.00 | 0/10.00 | 1/10.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 10% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) | 1/10 (10%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | 92 (T) | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.584 | (e) | (e) | (e) | P=0.500 | (e) |
| POLY 1.5 | P=0.584 | (e) | (e) | (e) | P=0.500 | (e) |
| POLY 6 | P=0.584 | (e) | (e) | (e) | P=0.500 | (e) |
| COCH-ARM / FISHERS | P=0.585 | (e) | (e) | (e) | P=0.500 | (e) |
| MAX-ISO-POLY-3 | P=0.193 | (e) | (e) | (e) | P=0.158 | (e) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|-----------|------------|-----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Ovary Cyst | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/1 (0%) | 1/2 (50%) | 1/1 (100%) | 1/2 (50%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/1.00 | 1/2.00 | 1/1.00 | 1/2.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 50% | 100% | 50% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/1 (0%) | 1/2 (50%) | 1/1 (100%) | 1/2 (50%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | 92 (T) | 92 (T) | 92 (T) | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | P=0.344N | (e) | P=0.124 | P=0.091 | P=0.124 | (e) |
| POLY 1.5 | P=0.344N | (e) | P=0.124 | P=0.091 | P=0.124 | (e) |
| POLY 6 | P=0.344N | (e) | P=0.124 | P=0.091 | P=0.124 | (e) |
| COCH-ARM / FISHERS | P=0.390N | (e) | P=0.167 | P=0.091 | P=0.167 | (e) |
| MAX-ISO-POLY-3 | P=0.023* | (e) | P=0.013* | P<0.001** | P=0.013* | (e) |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Pancreas Atrophy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| COCH-ARM / FISHERS | P=0.304N | (e) | (e) | (e) | (e) | P=0.500N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|-----------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Pituitary Gland Cyst | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 1.5 | (n) | (n) | (n) | (n) | (n) | (n) |
| POLY 6 | (n) | (n) | (n) | (n) | (n) | (n) |
| COCH-ARM / FISHERS | (n) | (n) | (n) | (n) | (n) | (n) |
| MAX-ISO-POLY-3 | (n) | (n) | (n) | (n) | (n) | (n) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Spleen | | | | | | |
| Necrosis Lymphoid | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 2/10 (20%) |
| POLY-3 RATE (b) | 0/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 2/10.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 20% |
| TERMINAL (d) | 0/10 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 2/10 (20%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.227 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.227 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.227 |
| COCH-ARM / FISHERS | P=0.132 | (e) | (e) | (e) | (e) | P=0.237 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.066 |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Thymus Atrophy | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 4/10 (40%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 4/10 (40%) |
| POLY-3 RATE (b) | 4/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 4/10.00 |
| POLY-3 PERCENT (g) | 40% | 0% | 0% | 0% | 0% | 40% |
| TERMINAL (d) | 4/10 (40%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 4/10 (40%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.667 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.667 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.667 |
| COCH-ARM / FISHERS | P=0.590 | (e) | (e) | (e) | (e) | P=0.675N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=1.000 |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Thymus Necrosis | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 6/10 (60%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 6/10 (60%) |
| POLY-3 RATE (b) | 6/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 6/10.00 |
| POLY-3 PERCENT (g) | 60% | 0% | 0% | 0% | 0% | 60% |
| TERMINAL (d) | 6/10 (60%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 6/10 (60%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.667 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.667 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.667 |
| COCH-ARM / FISHERS | P=0.590 | (e) | (e) | (e) | (e) | P=0.675N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=1.000 |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|-----------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Thyroid Gland | | | | | | |
| Ectopic Thymus | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 0% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/10 (0%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | --- |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.500N |
| COCH-ARM / FISHERS | P=0.304N | (e) | (e) | (e) | (e) | P=0.500N |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.158N |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Tissue NOS: Abdominal, Fat Necrosis Focal | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/1 (100%) |
| POLY-3 RATE (b) | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 1/1.00 |
| POLY-3 PERCENT (g) | 0% | 0% | 0% | 0% | 0% | 100% |
| TERMINAL (d) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 1/1 (100%) |
| FIRST INCIDENCE | --- | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | (e) |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | (e) |
| COCH-ARM / FISHERS | (e) | (e) | (e) | (e) | (e) | (e) |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | (e) |

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE | Females | | | | | |
|--------------------------|-----------------|----------|----------|----------|----------|------------|
| | VEHICLE CONTROL | 0.025% | 0.05% | 0.1% | 0.2% | 0.4% |
| Uterus | | | | | | |
| Hydrometra | | | | | | |
| LESION RATES | | | | | | |
| OVERALL (a) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 3/10 (30%) |
| POLY-3 RATE (b) | 1/10.00 | 0/0.00 | 0/0.00 | 0/0.00 | 0/0.00 | 3/10.00 |
| POLY-3 PERCENT (g) | 10% | 0% | 0% | 0% | 0% | 30% |
| TERMINAL (d) | 1/10 (10%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 0/0 (0%) | 3/10 (30%) |
| FIRST INCIDENCE | 92 (T) | --- | --- | --- | --- | 92 (T) |
| STATISTICAL TESTS | | | | | | |
| POLY 3 | (e) | (e) | (e) | (e) | (e) | P=0.292 |
| POLY 1.5 | (e) | (e) | (e) | (e) | (e) | P=0.292 |
| POLY 6 | (e) | (e) | (e) | (e) | (e) | P=0.292 |
| COCH-ARM / FISHERS | P=0.201 | (e) | (e) | (e) | (e) | P=0.291 |
| MAX-ISO-POLY-3 | (e) | (e) | (e) | (e) | (e) | P=0.136 |

Experiment Number: 95003 - 01

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 08/30/2016

Time Report Requested: 14:33:52

First Dose M/F: 12/17/01 / 12/18/01

Lab: MBA

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***