

**Experiment Number:** 99037 - 04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

**Date Report Requested:** 09/20/2016

**Time Report Requested:** 15:14:27

**First Dose M/F:** 08/14/02 / 08/15/02

**Lab:** SRI

**NTP Study Number:** C99037B  
**Lock Date:** 04/04/2003  
**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 ALPHA/BETA THUJONE MIXTURE**

**MALE MICE**

**Organ**

Liver

Lung

Stomach, Glandular

**FEMALE MICE**

**Organ**

Kidney

Lung

Spleen

**Morphology**

Depletion Glycogen

Hematopoietic Cell Proliferation

Congestion

Hemorrhage

Cyst

**Morphology**

Casts Protein

Congestion

Hyperplasia Focal Lymphoid

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                                     | Males     |            |            |           |           |           |
|--|-----------|------------|------------|-----------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Adrenal Cortex</b>                    |           |            |            |           |           |           |
| <b>Accessory Adrenal Cortical Nodule</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>                      |           |            |            |           |           |           |
| 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   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)                       | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                             | 0/10 (0%) | 0/10 (0%)  | 0/10 (0%)  | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                          | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                 |           |            |            |           |           |           |
| 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 MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                      | Males     |            |            |           |           |           |
|---------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                           | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Brain</b>              |           |            |            |           |           |           |
| <b>Inflammation Acute</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>       |           |            |            |           |           |           |
| 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   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)        | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)              | 0/10 (0%) | 0/10 (0%)  | 0/10 (0%)  | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE           | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>  |           |            |            |           |           |           |
| 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 MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                      | Males     |            |            |            |           |           |
|---------------------------|-----------|------------|------------|------------|-----------|-----------|
|                           | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Eye</b>                |           |            |            |            |           |           |
| <b>Inflammation Acute</b> |           |            |            |            |           |           |
| <b>LESION RATES</b>       |           |            |            |            |           |           |
| OVERALL (a)               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)           | 0/10.00   | 0/0.00     | 0/0.00     | 1/10.00    | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)        | 0%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE           | ---       | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>  |           |            |            |            |           |           |
| POLY 3                    | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 1.5                  | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 6                    | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| COCH-ARM / FISHERS        | P=0.500N  | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| MAX-ISO-POLY-3            | (e)       | (e)        | (e)        | P=0.158    | (e)       | (e)       |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

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| DOSE                     | Males     |            |            |            |           |           |
|--------------------------|-----------|------------|------------|------------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Harderian Gland</b>   |           |            |            |            |           |           |
| <b>Hyperplasia Focal</b> |           |            |            |            |           |           |
| <hr/>                    |           |            |            |            |           |           |
| <b>LESION RATES</b>      |           |            |            |            |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 1/10.00    | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | 93 (T)     | ---       | ---       |
| <hr/>                    |           |            |            |            |           |           |
| <b>STATISTICAL TESTS</b> |           |            |            |            |           |           |
| POLY 3                   | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 1.5                 | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 6                   | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| COCH-ARM / FISHERS       | P=0.500N  | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| MAX-ISO-POLY-3           | (e)       | (e)        | (e)        | P=0.158    | (e)       | (e)       |

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE  | Males      |            |            |            |           |           |
|---|------------|------------|------------|------------|-----------|-----------|
|   | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Harderian Gland<br/>Inflammation Acute</b> |            |            |            |            |           |           |
| <b>LESION RATES</b>                           |            |            |            |            |           |           |
| OVERALL (a)                                   | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                               | 1/10.00    | 0/0.00     | 0/0.00     | 2/10.00    | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)                            | 10%        | 0%         | 0%         | 20%        | 0%        | 0%        |
| TERMINAL (d)                                  | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                               | 93 (T)     | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>                      |            |            |            |            |           |           |
| POLY 3  | (e)        | (e)        | (e)        | P=0.500    | P=0.628N  | P=0.734N  |
| POLY 1.5                                      | (e)        | (e)        | (e)        | P=0.500    | P=0.581N  | P=0.676N  |
| POLY 6  | (e)        | (e)        | (e)        | P=0.500    | P=0.672N  | P=0.757N  |
| COCH-ARM / FISHERS                            | P=0.141N   | (e)        | (e)        | P=0.500    | P=0.500N  | P=0.500N  |
| MAX-ISO-POLY-3                                | (e)        | (e)        | (e)        | P=0.274    | P=0.313N  | P=0.454N  |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                     | Males     |            |            |           |           |           |
|--------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Kidney</b>            |           |            |            |           |           |           |
| <b>Casts Protein</b>     |           |            |            |           |           |           |
| <b>LESION RATES</b>      |           |            |            |           |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |           |           |           |
| 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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TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                     | Males     |            |            |            |           |           |
|--------------------------|-----------|------------|------------|------------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Kidney Cyst</b>       |           |            |            |            |           |           |
| <b>LESION RATES</b>      |           |            |            |            |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 1/10.00    | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |            |           |           |
| POLY 3                   | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 1.5                 | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 6                   | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| COCH-ARM / FISHERS       | P=0.500N  | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| MAX-ISO-POLY-3           | (e)       | (e)        | (e)        | P=0.158    | (e)       | (e)       |

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Test Type: 90-DAY

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TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Males      |            |            |            |            |            |
|--------------------------|------------|------------|------------|------------|------------|------------|
|                          | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG   | 75 MG/KG   |
| <b>Kidney</b>            |            |            |            |            |            |            |
| <b>Nephropathy</b>       |            |            |            |            |            |            |
| <b>LESION RATES</b>      |            |            |            |            |            |            |
| OVERALL (a)              | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 2/10 (20%) | 1/10 (10%) |
| POLY-3 RATE (b)          | 1/10.00    | 0/0.00     | 0/0.00     | 2/10.00    | 2/5.81     | 1/2.00     |
| POLY-3 PERCENT (g)       | 10%        | 0%         | 0%         | 20%        | 34.4%      | 50.1%      |
| TERMINAL (d)             | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 0/1 (0%)   | 0/0 (0%)   |
| FIRST INCIDENCE          | 93 (T)     | ---        | ---        | 93 (T)     | 55         | 42         |
| <b>STATISTICAL TESTS</b> |            |            |            |            |            |            |
| POLY 3                   | (e)        | (e)        | (e)        | P=0.500    | P=0.313    | P=0.416    |
| POLY 1.5                 | (e)        | (e)        | (e)        | P=0.500    | P=0.382    | P=0.535    |
| POLY 6                   | (e)        | (e)        | (e)        | P=0.500    | P=0.250    | P=0.360    |
| COCH-ARM / FISHERS       | P=0.578    | (e)        | (e)        | P=0.500    | P=0.500    | P=0.763N   |
| MAX-ISO-POLY-3           | (e)        | (e)        | (e)        | P=0.274    | P=0.183    | P=0.271    |

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                       | Males     |            |            |           |           |            |
|--|-----------|------------|------------|-----------|-----------|------------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG   |
| <b>Kidney: Renal Tubule Mineralization</b> |           |            |            |           |           |            |
| <b>LESION RATES</b>                        |           |            |            |           |           |            |
| OVERALL (a)                                | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 1/10 (10%) |
| POLY-3 RATE (b)                            | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 1/1.93     |
| POLY-3 PERCENT (g)                         | 0%        | 0%         | 0%         | 0%        | 0%        | 52%        |
| TERMINAL (d)                               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)   |
| FIRST INCIDENCE                            | ---       | ---        | ---        | ---       | ---       | 51         |
| <b>STATISTICAL TESTS</b>                   |           |            |            |           |           |            |
| POLY 3                                     | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.272    |
| POLY 1.5                                   | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.334    |
| POLY 6                                     | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.247    |
| COCH-ARM / FISHERS                         | P=0.183   | (e)        | (e)        | (e)       | (e)       | P=0.500    |
| MAX-ISO-POLY-3                             | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.139    |

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                      | Males      |            |            |            |            |           |
|---------------------------|------------|------------|------------|------------|------------|-----------|
|                           | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG   | 75 MG/KG  |
| <b>Liver</b>              |            |            |            |            |            |           |
| <b>Depletion Glycogen</b> |            |            |            |            |            |           |
| <b>LESION RATES</b>       |            |            |            |            |            |           |
| <b>OVERALL (a)</b>        | 5/10 (50%) | 0/0 (0%)   | 0/0 (0%)   | 5/10 (50%) | 1/10 (10%) | 0/10 (0%) |
| <b>POLY-3 RATE (b)</b>    | 5/10.00    | 0/0.00     | 0/0.00     | 5/10.00    | 1/4.84     | 0/1.09    |
| <b>POLY-3 PERCENT (g)</b> | 50%        | 0%         | 0%         | 50%        | 20.7%      | 0%        |
| <b>TERMINAL (d)</b>       | 5/10 (50%) | 0/0 (0%)   | 0/0 (0%)   | 5/10 (50%) | 1/1 (100%) | 0/0 (0%)  |
| <b>FIRST INCIDENCE</b>    | 93 (T)     | ---        | ---        | 93 (T)     | 93 (T)     | ---       |
| <b>STATISTICAL TESTS</b>  |            |            |            |            |            |           |
| <b>POLY 3</b>             | (e)        | (e)        | (e)        | P=0.664    | P=0.322N   | P=0.503N  |
| <b>POLY 1.5</b>           | (e)        | (e)        | (e)        | P=0.664    | P=0.182N   | P=0.221N  |
| <b>POLY 6</b>             | (e)        | (e)        | (e)        | P=0.664    | P=0.502N   | P=0.645N  |
| <b>COCH-ARM / FISHERS</b> | P=0.002N** | (e)        | (e)        | P=0.672N   | P=0.070N   | P=0.016N* |
| <b>MAX-ISO-POLY-3</b>     | (e)        | (e)        | (e)        | P=1.000    | P=0.223N   | P=0.370N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                    | Males     |            |            |            |            |            |
|---|-----------|------------|------------|------------|------------|------------|
|   | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG   | 75 MG/KG   |
| <b>Liver</b>                            |           |            |            |            |            |            |
| <b>Hematopoietic Cell Proliferation</b> |           |            |            |            |            |            |
| <b>LESION RATES</b>                     |           |            |            |            |            |            |
| OVERALL (a)                             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 1/10 (10%) | 2/10 (20%) |
| POLY-3 RATE (b)                         | 0/10.00   | 0/0.00     | 0/0.00     | 2/10.00    | 1/5.63     | 2/2.85     |
| POLY-3 PERCENT (g)                      | 0%        | 0%         | 0%         | 20%        | 17.8%      | 70.1%      |
| TERMINAL (d)                            | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 0/1 (0%)   | 0/0 (0%)   |
| FIRST INCIDENCE                         | ---       | ---        | ---        | 93 (T)     | 55         | 42         |
| <b>STATISTICAL TESTS</b>                |           |            |            |            |            |            |
| POLY 3                                  | (e)       | (e)        | (e)        | P=0.227    | P=0.391    | P=0.054    |
| POLY 1.5                                | (e)       | (e)        | (e)        | P=0.227    | P=0.433    | P=0.088    |
| POLY 6                                  | (e)       | (e)        | (e)        | P=0.227    | P=0.349    | P=0.042*   |
| COCH-ARM / FISHERS                      | P=0.196   | (e)        | (e)        | P=0.237    | P=0.500    | P=0.237    |
| MAX-ISO-POLY-3                          | (e)       | (e)        | (e)        | P=0.066    | P=0.151    | P=0.041*   |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

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| DOSE                       | Males     |            |            |           |           |           |
|----------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                            | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <hr/>                      |           |            |            |           |           |           |
| Liver                      |           |            |            |           |           |           |
| Hepatodiaphragmatic Nodule |           |            |            |           |           |           |
| <hr/>                      |           |            |            |           |           |           |
| <b>LESION RATES</b>        |           |            |            |           |           |           |
| OVERALL (a)                | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)            | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)         | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE            | ---       | ---        | ---        | ---       | ---       | ---       |
| <hr/>                      |           |            |            |           |           |           |
| <b>STATISTICAL TESTS</b>   |           |            |            |           |           |           |
| 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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Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                        | Males      |            |            |           |           |           |
|-----------------------------|------------|------------|------------|-----------|-----------|-----------|
|                             | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Liver</b>                |            |            |            |           |           |           |
| <b>Inflammation Chronic</b> |            |            |            |           |           |           |
| <b>LESION RATES</b>         |            |            |            |           |           |           |
| OVERALL (a)                 | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)             | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)          | 10%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE             | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>    |            |            |            |           |           |           |
| POLY 3                      | (e)        | (e)        | (e)        | P=0.500N  | P=0.628N  | P=0.734N  |
| POLY 1.5                    | (e)        | (e)        | (e)        | P=0.500N  | P=0.581N  | P=0.676N  |
| POLY 6                      | (e)        | (e)        | (e)        | P=0.500N  | P=0.672N  | P=0.757N  |
| COCH-ARM / FISHERS          | P=0.183N   | (e)        | (e)        | P=0.500N  | P=0.500N  | P=0.500N  |
| MAX-ISO-POLY-3              | (e)        | (e)        | (e)        | P=0.158N  | P=0.313N  | P=0.454N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                     | Males     |            |            |           |            |            |
|--------------------------|-----------|------------|------------|-----------|------------|------------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG   |
| <b>Lung Congestion</b>   |           |            |            |           |            |            |
| <b>LESION RATES</b>      |           |            |            |           |            |            |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 1/10 (10%) | 5/10 (50%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 1/5.63     | 5/5.63     |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 17.8%      | 88.8%      |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)   | 0/0 (0%)   |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | 55         | 35         |
| <b>STATISTICAL TESTS</b> |           |            |            |           |            |            |
| POLY 3                   | (e)       | (e)        | (e)        | (e)       | P=0.391    | P<0.001**  |
| POLY 1.5                 | (e)       | (e)        | (e)        | (e)       | P=0.433    | P<0.001**  |
| POLY 6                   | (e)       | (e)        | (e)        | (e)       | P=0.349    | P<0.001**  |
| COCH-ARM / FISHERS       | P<0.001** | (e)        | (e)        | (e)       | P=0.500    | P=0.016*   |
| MAX-ISO-POLY-3           | (e)       | (e)        | (e)        | (e)       | P=0.151    | P<0.001**  |



Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Males     |            |            |           |            |            |
|--------------------------|-----------|------------|------------|-----------|------------|------------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG   |
| <b>Lung Hemorrhage</b>   |           |            |            |           |            |            |
| <b>LESION RATES</b>      |           |            |            |           |            |            |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 5/10 (50%) | 1/10 (10%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 5/7.87     | 1/2.02     |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 63.6%      | 49.5%      |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)   | 0/0 (0%)   |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | 42         | 38         |
| <b>STATISTICAL TESTS</b> |           |            |            |           |            |            |
| POLY 3                   | (e)       | (e)        | (e)        | (e)       | P<0.001**  | P=0.275    |
| POLY 1.5                 | (e)       | (e)        | (e)        | (e)       | P=0.002**  | P=0.339    |
| POLY 6                   | (e)       | (e)        | (e)        | (e)       | P<0.001**  | P=0.247    |
| COCH-ARM / FISHERS       | P=0.083   | (e)        | (e)        | (e)       | P=0.016*   | P=0.500    |
| MAX-ISO-POLY-3           | (e)       | (e)        | (e)        | (e)       | P<0.001**  | P=0.139    |

Experiment Number: 99037 - 04  
 Test Type: 90-DAY  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: 76231-76-0

Date Report Requested: 09/20/2016  
 Time Report Requested: 15:14:27  
 First Dose M/F: 08/14/02 / 08/15/02  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                                   | Males     |            |            |           |           |           |
|--|-----------|------------|------------|-----------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Lung</b>                            |           |            |            |           |           |           |
| Infiltration Cellular Focal Histiocyte |           |            |            |           |           |           |
| <b>LESION RATES</b>                    |           |            |            |           |           |           |
| OVERALL (a)                            | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                        | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)                     | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                           | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                        | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>               |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                      | Males     |            |            |           |           |           |
|---------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                           | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Lung</b>               |           |            |            |           |           |           |
| <b>Inflammation Acute</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>       |           |            |            |           |           |           |
| OVERALL (a)               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)           | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)        | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE           | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>  |           |            |            |           |           |           |
| 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: 99037 - 04  
 Test Type: 90-DAY  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: 76231-76-0

Date Report Requested: 09/20/2016  
 Time Report Requested: 15:14:27  
 First Dose M/F: 08/14/02 / 08/15/02  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                     | Males     |            |            |           |           |           |
|--------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Pancreas: Acinus</b>  |           |            |            |           |           |           |
| <b>Atrophy Focal</b>     |           |            |            |           |           |           |
| <b>LESION RATES</b>      |           |            |            |           |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Males      |            |            |           |           |          |
|--------------------------|------------|------------|------------|-----------|-----------|----------|
|                          | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG |
| Parathyroid Gland Cyst   |            |            |            |           |           |          |
| <b>LESION RATES</b>      |            |            |            |           |           |          |
| OVERALL (a)              | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/9 (0%) |
| POLY-3 RATE (b)          | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/0.99   |
| POLY-3 PERCENT (g)       | 10%        | 0%         | 0%         | 0%        | 0%        | 0%       |
| TERMINAL (d)             | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%) |
| FIRST INCIDENCE          | 93 (T)     | ---        | ---        | ---       | ---       | ---      |
| <b>STATISTICAL TESTS</b> |            |            |            |           |           |          |
| POLY 3                   | (e)        | (e)        | (e)        | P=0.500N  | P=0.628N  | P=0.742N |
| POLY 1.5                 | (e)        | (e)        | (e)        | P=0.500N  | P=0.581N  | P=0.688N |
| POLY 6                   | (e)        | (e)        | (e)        | P=0.500N  | P=0.672N  | P=0.763N |
| COCH-ARM / FISHERS       | P=0.189N   | (e)        | (e)        | P=0.500N  | P=0.500N  | P=0.526N |
| MAX-ISO-POLY-3           | (e)        | (e)        | (e)        | P=0.158N  | P=0.313N  | P=0.457N |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                       | Males     |            |            |           |            |          |
|--|-----------|------------|------------|-----------|------------|----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG |
| <b>Pituitary Gland: Pars Distalis Cyst</b> |           |            |            |           |            |          |
| <b>LESION RATES</b>                        |           |            |            |           |            |          |
| OVERALL (a)                                | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 1/10 (10%) | 0/9 (0%) |
| POLY-3 RATE (b)                            | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 1/5.75     | 0/1.00   |
| POLY-3 PERCENT (g)                         | 0%        | 0%         | 0%         | 0%        | 17.4%      | 0%       |
| TERMINAL (d)                               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)   | 0/0 (0%) |
| FIRST INCIDENCE                            | ---       | ---        | ---        | ---       | 42         | ---      |
| <b>STATISTICAL TESTS</b>                   |           |            |            |           |            |          |
| POLY 3                                     | (e)       | (e)        | (e)        | (e)       | P=0.394    | (e)      |
| POLY 1.5                                   | (e)       | (e)        | (e)        | (e)       | P=0.437    | (e)      |
| POLY 6                                     | (e)       | (e)        | (e)        | (e)       | P=0.350    | (e)      |
| COCH-ARM / FISHERS                         | P=0.486   | (e)        | (e)        | (e)       | P=0.500    | (e)      |
| MAX-ISO-POLY-3                             | (e)       | (e)        | (e)        | (e)       | P=0.151    | (e)      |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE  | Males     |            |            |           |            |           |
|---|-----------|------------|------------|-----------|------------|-----------|
|   | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG  |
| <b>Preputial Gland<br/>Inflammation Chronic</b> |           |            |            |           |            |           |
| <b>LESION RATES</b>                             |           |            |            |           |            |           |
| OVERALL (a)                                     | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 1/10 (10%) | 0/10 (0%) |
| POLY-3 RATE (b)                                 | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 1/4.84     | 0/1.09    |
| POLY-3 PERCENT (g)                              | 0%        | 0%         | 0%         | 0%        | 20.7%      | 0%        |
| TERMINAL (d)                                    | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 1/1 (100%) | 0/0 (0%)  |
| FIRST INCIDENCE                                 | ---       | ---        | ---        | ---       | 93 (T)     | ---       |
| <b>STATISTICAL TESTS</b>                        |           |            |            |           |            |           |
| POLY 3  | (e)       | (e)        | (e)        | (e)       | P=0.367    | (e)       |
| POLY 1.5  | (e)       | (e)        | (e)        | (e)       | P=0.418    | (e)       |
| POLY 6  | (e)       | (e)        | (e)        | (e)       | P=0.318    | (e)       |
| COCH-ARM / FISHERS                              | P=0.500   | (e)        | (e)        | (e)       | P=0.500    | (e)       |
| MAX-ISO-POLY-3                                  | (e)       | (e)        | (e)        | (e)       | P=0.149    | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                          | Males     |            |            |          |            |            |
|-------------------------------|-----------|------------|------------|----------|------------|------------|
|                               | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG | 50 MG/KG   | 75 MG/KG   |
| <b>Spinal Cord Congestion</b> |           |            |            |          |            |            |
| <b>LESION RATES</b>           |           |            |            |          |            |            |
| OVERALL (a)                   | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/4 (0%) | 1/10 (10%) | 1/10 (10%) |
| POLY-3 RATE (b)               | 0/10.00   | 0/0.00     | 0/0.00     | 0/4.00   | 1/5.63     | 1/1.93     |
| POLY-3 PERCENT (g)            | 0%        | 0%         | 0%         | 0%       | 17.8%      | 52%        |
| TERMINAL (d)                  | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/4 (0%) | 0/1 (0%)   | 0/0 (0%)   |
| FIRST INCIDENCE               | ---       | ---        | ---        | ---      | 55         | 51         |
| <b>STATISTICAL TESTS</b>      |           |            |            |          |            |            |
| POLY 3                        | (e)       | (e)        | (e)        | (e)      | P=0.391    | P=0.272    |
| POLY 1.5                      | (e)       | (e)        | (e)        | (e)      | P=0.433    | P=0.334    |
| POLY 6                        | (e)       | (e)        | (e)        | (e)      | P=0.349    | P=0.247    |
| COCH-ARM / FISHERS            | P=0.209   | (e)        | (e)        | (e)      | P=0.500    | P=0.500    |
| MAX-ISO-POLY-3                | (e)       | (e)        | (e)        | (e)      | P=0.151    | P=0.139    |



Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                                    | Males     |            |            |           |           |           |
|---|-----------|------------|------------|-----------|-----------|-----------|
|   | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>                           |           |            |            |           |           |           |
| <b>Hematopoietic Cell Proliferation</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>                     |           |            |            |           |           |           |
| OVERALL (a)                             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                         | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)                      | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                            | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                         | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                       | Males     |            |            |           |           |           |
|----------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                            | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>              |           |            |            |           |           |           |
| Hyperplasia Focal Lymphoid |           |            |            |           |           |           |
| <b>LESION RATES</b>        |           |            |            |           |           |           |
| OVERALL (a)                | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)            | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)         | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE            | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>   |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                        | Males      |            |            |           |           |           |
|-----------------------------|------------|------------|------------|-----------|-----------|-----------|
|                             | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>               |            |            |            |           |           |           |
| <b>Hyperplasia Lymphoid</b> |            |            |            |           |           |           |
| <b>LESION RATES</b>         |            |            |            |           |           |           |
| OVERALL (a)                 | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)             | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)          | 10%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE             | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>    |            |            |            |           |           |           |
| POLY 3                      | (e)        | (e)        | (e)        | P=0.500N  | P=0.628N  | P=0.734N  |
| POLY 1.5                    | (e)        | (e)        | (e)        | P=0.500N  | P=0.581N  | P=0.676N  |
| POLY 6                      | (e)        | (e)        | (e)        | P=0.500N  | P=0.672N  | P=0.757N  |
| COCH-ARM / FISHERS          | P=0.183N   | (e)        | (e)        | P=0.500N  | P=0.500N  | P=0.500N  |
| MAX-ISO-POLY-3              | (e)        | (e)        | (e)        | P=0.158N  | P=0.313N  | P=0.454N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                  | Males      |            |            |           |           |           |
|---------------------------------------|------------|------------|------------|-----------|-----------|-----------|
|                                       | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>                         |            |            |            |           |           |           |
| <b>Pigmentation Focal Hemosiderin</b> |            |            |            |           |           |           |
| <b>LESION RATES</b>                   |            |            |            |           |           |           |
| OVERALL (a)                           | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                       | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)                    | 10%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                          | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                       | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>              |            |            |            |           |           |           |
| POLY 3                                | (e)        | (e)        | (e)        | P=0.500N  | P=0.628N  | P=0.734N  |
| POLY 1.5                              | (e)        | (e)        | (e)        | P=0.500N  | P=0.581N  | P=0.676N  |
| POLY 6                                | (e)        | (e)        | (e)        | P=0.500N  | P=0.672N  | P=0.757N  |
| COCH-ARM / FISHERS                    | P=0.183N   | (e)        | (e)        | P=0.500N  | P=0.500N  | P=0.500N  |
| MAX-ISO-POLY-3                        | (e)        | (e)        | (e)        | P=0.158N  | P=0.313N  | P=0.454N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                           | Males      |            |            |            |           |           |
|--------------------------------|------------|------------|------------|------------|-----------|-----------|
|                                | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular Cyst</b> |            |            |            |            |           |           |
| <b>LESION RATES</b>            |            |            |            |            |           |           |
| OVERALL (a)                    | 3/10 (30%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                | 3/10.00    | 0/0.00     | 0/0.00     | 2/10.00    | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)             | 30%        | 0%         | 0%         | 20%        | 0%        | 0%        |
| TERMINAL (d)                   | 3/10 (30%) | 0/0 (0%)   | 0/0 (0%)   | 2/10 (20%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                | 93 (T)     | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>       |            |            |            |            |           |           |
| POLY 3                         | (e)        | (e)        | (e)        | P=0.500N   | P=0.279N  | P=0.583N  |
| POLY 1.5                       | (e)        | (e)        | (e)        | P=0.500N   | P=0.190N  | P=0.393N  |
| POLY 6                         | (e)        | (e)        | (e)        | P=0.500N   | P=0.387N  | P=0.667N  |
| COCH-ARM / FISHERS             | P=0.016N*  | (e)        | (e)        | P=0.500N   | P=0.105N  | P=0.105N  |
| MAX-ISO-POLY-3                 | (e)        | (e)        | (e)        | P=0.310N   | P=0.173N  | P=0.413N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                            | Males     |            |            |            |           |           |
|---------------------------------|-----------|------------|------------|------------|-----------|-----------|
|                                 | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular Edema</b> |           |            |            |            |           |           |
| <b>LESION RATES</b>             |           |            |            |            |           |           |
| OVERALL (a)                     | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                 | 0/10.00   | 0/0.00     | 0/0.00     | 1/10.00    | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)              | 0%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)                    | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                 | ---       | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>        |           |            |            |            |           |           |
| POLY 3                          | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 1.5                        | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 6                          | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| COCH-ARM / FISHERS              | P=0.500N  | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| MAX-ISO-POLY-3                  | (e)       | (e)        | (e)        | P=0.158    | (e)       | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE   | Males     |            |            |            |           |           |
|--|-----------|------------|------------|------------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular<br/>Infiltration Cellular Eosinophil</b> |           |            |            |            |           |           |
| <b>LESION RATES</b>  |           |            |            |            |           |           |
| OVERALL (a)  | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)  | 0/10.00   | 0/0.00     | 0/0.00     | 1/10.00    | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)   | 0%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)   | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE  | ---       | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>                                       |           |            |            |            |           |           |
| POLY 3   | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 1.5   | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 6   | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| COCH-ARM / FISHERS   | P=0.500N  | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| MAX-ISO-POLY-3   | (e)       | (e)        | (e)        | P=0.158    | (e)       | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                     | Males     |            |            |           |           |           |
|--|-----------|------------|------------|-----------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular Mineralization</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>                      |           |            |            |           |           |           |
| OVERALL (a)                              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/4.84    | 0/1.09    |
| POLY-3 PERCENT (g)                       | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/1 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                          | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                 |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                     | Females   |            |            |           |            |           |
|--|-----------|------------|------------|-----------|------------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG  |
| <b>Adrenal Cortex</b>                    |           |            |            |           |            |           |
| <b>Accessory Adrenal Cortical Nodule</b> |           |            |            |           |            |           |
| <b>LESION RATES</b>                      |           |            |            |           |            |           |
| 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   | 1/6.71     | 0/1.47    |
| POLY-3 PERCENT (g)                       | 0%        | 0%         | 0%         | 0%        | 14.9%      | 0%        |
| TERMINAL (d)                             | 0/10 (0%) | 0/10 (0%)  | 0/10 (0%)  | 0/10 (0%) | 0/3 (0%)   | 0/0 (0%)  |
| FIRST INCIDENCE                          | ---       | ---        | ---        | ---       | 83         | ---       |
| <b>STATISTICAL TESTS</b>                 |           |            |            |           |            |           |
| POLY 3                                   | P=0.102   | (e)        | (e)        | (e)       | P=0.422    | (e)       |
| POLY 1.5                                 | P=0.164   | (e)        | (e)        | (e)       | P=0.456    | (e)       |
| POLY 6                                   | P=0.118   | (e)        | (e)        | (e)       | P=0.380    | (e)       |
| COCH-ARM / FISHERS                       | P=0.360   | (e)        | (e)        | (e)       | P=0.500    | (e)       |
| MAX-ISO-POLY-3                           | P=0.187   | (e)        | (e)        | (e)       | P=0.153    | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                      | Females   |            |            |           |            |           |
|---------------------------|-----------|------------|------------|-----------|------------|-----------|
|                           | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG  |
| <b>Brain</b>              |           |            |            |           |            |           |
| <b>Inflammation Acute</b> |           |            |            |           |            |           |
| <b>LESION RATES</b>       |           |            |            |           |            |           |
| 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   | 1/6.42     | 0/1.47    |
| POLY-3 PERCENT (g)        | 0%        | 0%         | 0%         | 0%        | 15.6%      | 0%        |
| TERMINAL (d)              | 0/10 (0%) | 0/10 (0%)  | 0/10 (0%)  | 0/10 (0%) | 1/3 (33%)  | 0/0 (0%)  |
| FIRST INCIDENCE           | ---       | ---        | ---        | ---       | 93 (T)     | ---       |
| <b>STATISTICAL TESTS</b>  |           |            |            |           |            |           |
| POLY 3                    | P=0.100   | (e)        | (e)        | (e)       | P=0.414    | (e)       |
| POLY 1.5                  | P=0.164   | (e)        | (e)        | (e)       | P=0.452    | (e)       |
| POLY 6                    | P=0.138   | (e)        | (e)        | (e)       | P=0.365    | (e)       |
| COCH-ARM / FISHERS        | P=0.360   | (e)        | (e)        | (e)       | P=0.500    | (e)       |
| MAX-ISO-POLY-3            | P=0.185   | (e)        | (e)        | (e)       | P=0.152    | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                      | Females   |            |            |           |           |           |
|---------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                           | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Eye</b>                |           |            |            |           |           |           |
| <b>Inflammation Acute</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>       |           |            |            |           |           |           |
| OVERALL (a)               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)           | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)        | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE           | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>  |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Females   |            |            |           |           |           |
|--------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Harderian Gland</b>   |           |            |            |           |           |           |
| <b>Hyperplasia Focal</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>      |           |            |            |           |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE  | Females    |            |            |           |           |           |
|---|------------|------------|------------|-----------|-----------|-----------|
|   | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Harderian Gland<br/>Inflammation Acute</b> |            |            |            |           |           |           |
| <b>LESION RATES</b>                           |            |            |            |           |           |           |
| OVERALL (a)                                   | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                               | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)                            | 10%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                                  | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                               | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                      |            |            |            |           |           |           |
| POLY 3  | (e)        | (e)        | (e)        | P=0.500N  | P=0.584N  | P=0.725N  |
| POLY 1.5                                      | (e)        | (e)        | (e)        | P=0.500N  | P=0.547N  | P=0.659N  |
| POLY 6  | (e)        | (e)        | (e)        | P=0.500N  | P=0.630N  | P=0.755N  |
| COCH-ARM / FISHERS                            | P=0.183N   | (e)        | (e)        | P=0.500N  | P=0.500N  | P=0.500N  |
| MAX-ISO-POLY-3                                | (e)        | (e)        | (e)        | P=0.158N  | P=0.260N  | P=0.441N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Females    |            |            |           |           |           |
|--------------------------|------------|------------|------------|-----------|-----------|-----------|
|                          | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Kidney</b>            |            |            |            |           |           |           |
| <b>Casts Protein</b>     |            |            |            |           |           |           |
| <b>LESION RATES</b>      |            |            |            |           |           |           |
| OVERALL (a)              | 3/10 (30%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 3/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)       | 30%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)             | 3/10 (30%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b> |            |            |            |           |           |           |
| POLY 3                   | (e)        | (e)        | (e)        | P=0.095N  | P=0.196N  | P=0.549N  |
| POLY 1.5                 | (e)        | (e)        | (e)        | P=0.095N  | P=0.144N  | P=0.349N  |
| POLY 6                   | (e)        | (e)        | (e)        | P=0.095N  | P=0.283N  | P=0.659N  |
| COCH-ARM / FISHERS       | P=0.016N*  | (e)        | (e)        | P=0.105N  | P=0.105N  | P=0.105N  |
| MAX-ISO-POLY-3           | (e)        | (e)        | (e)        | P=0.024N* | P=0.104N  | P=0.386N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                     | Females   |            |            |           |           |           |
|--------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Kidney Cyst</b>       |           |            |            |           |           |           |
| <b>LESION RATES</b>      |           |            |            |           |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |           |           |           |
| 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: 99037 - 04  
 Test Type: 90-DAY  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: 76231-76-0

Date Report Requested: 09/20/2016  
 Time Report Requested: 15:14:27  
 First Dose M/F: 08/14/02 / 08/15/02  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                     | Females    |            |            |           |            |           |
|--------------------------|------------|------------|------------|-----------|------------|-----------|
|                          | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG  |
| <b>Kidney</b>            |            |            |            |           |            |           |
| <b>Nephropathy</b>       |            |            |            |           |            |           |
| <b>LESION RATES</b>      |            |            |            |           |            |           |
| OVERALL (a)              | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 1/10 (10%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 1/6.71     | 0/1.47    |
| POLY-3 PERCENT (g)       | 10%        | 0%         | 0%         | 0%        | 14.9%      | 0%        |
| TERMINAL (d)             | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)   | 0/0 (0%)  |
| FIRST INCIDENCE          | 93 (T)     | ---        | ---        | ---       | 83         | ---       |
| <b>STATISTICAL TESTS</b> |            |            |            |           |            |           |
| POLY 3                   | (e)        | (e)        | (e)        | P=0.500N  | P=0.666    | P=0.725N  |
| POLY 1.5                 | (e)        | (e)        | (e)        | P=0.500N  | P=0.710    | P=0.659N  |
| POLY 6                   | (e)        | (e)        | (e)        | P=0.500N  | P=0.605    | P=0.755N  |
| COCH-ARM / FISHERS       | P=0.373N   | (e)        | (e)        | P=0.500N  | P=0.763N   | P=0.500N  |
| MAX-ISO-POLY-3           | (e)        | (e)        | (e)        | P=0.158N  | P=0.406    | P=0.441N  |



Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                                       | Females   |            |            |           |           |           |
|--|-----------|------------|------------|-----------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Kidney: Renal Tubule Mineralization</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>                        |           |            |            |           |           |           |
| OVERALL (a)                                | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                            | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)                         | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                            | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                   |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                      | Females   |            |            |           |           |           |
|---------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                           | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Liver</b>              |           |            |            |           |           |           |
| <b>Depletion Glycogen</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>       |           |            |            |           |           |           |
| OVERALL (a)               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)           | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)        | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE           | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>  |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                    | Females    |            |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|
|   | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG   | 75 MG/KG   |
| <b>Liver</b>                            |            |            |            |            |            |            |
| <b>Hematopoietic Cell Proliferation</b> |            |            |            |            |            |            |
| <b>LESION RATES</b>                     |            |            |            |            |            |            |
| OVERALL (a)                             | 3/10 (30%) | 0/0 (0%)   | 0/0 (0%)   | 3/10 (30%) | 4/10 (40%) | 2/10 (20%) |
| POLY-3 RATE (b)                         | 3/10.00    | 0/0.00     | 0/0.00     | 3/10.00    | 4/8.38     | 2/3.15     |
| POLY-3 PERCENT (g)                      | 30%        | 0%         | 0%         | 30%        | 47.7%      | 63.4%      |
| TERMINAL (d)                            | 3/10 (30%) | 0/0 (0%)   | 0/0 (0%)   | 3/10 (30%) | 0/3 (0%)   | 0/0 (0%)   |
| FIRST INCIDENCE                         | 93 (T)     | ---        | ---        | 93 (T)     | 65         | 49         |
| <b>STATISTICAL TESTS</b>                |            |            |            |            |            |            |
| POLY 3                                  | (e)        | (e)        | (e)        | P=0.678    | P=0.387    | P=0.382    |
| POLY 1.5                                | (e)        | (e)        | (e)        | P=0.678    | P=0.434    | P=0.569    |
| POLY 6                                  | (e)        | (e)        | (e)        | P=0.678    | P=0.331    | P=0.277    |
| COCH-ARM / FISHERS                      | P=0.439N   | (e)        | (e)        | P=0.686N   | P=0.500    | P=0.500N   |
| MAX-ISO-POLY-3                          | (e)        | (e)        | (e)        | P=1.000    | P=0.242    | P=0.276    |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                              | Females   |            |            |           |           |            |
|-----------------------------------|-----------|------------|------------|-----------|-----------|------------|
|                                   | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG   |
| <b>Liver</b>                      |           |            |            |           |           |            |
| <b>Hepatodiaphragmatic Nodule</b> |           |            |            |           |           |            |
| <b>LESION RATES</b>               |           |            |            |           |           |            |
| OVERALL (a)                       | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 1/10 (10%) |
| POLY-3 RATE (b)                   | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 1/2.37     |
| POLY-3 PERCENT (g)                | 0%        | 0%         | 0%         | 0%        | 0%        | 42.2%      |
| TERMINAL (d)                      | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)   |
| FIRST INCIDENCE                   | ---       | ---        | ---        | ---       | ---       | 42         |
| <b>STATISTICAL TESTS</b>          |           |            |            |           |           |            |
| POLY 3                            | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.287    |
| POLY 1.5                          | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.355    |
| POLY 6                            | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.250    |
| COCH-ARM / FISHERS                | P=0.183   | (e)        | (e)        | (e)       | (e)       | P=0.500    |
| MAX-ISO-POLY-3                    | (e)       | (e)        | (e)        | (e)       | (e)       | P=0.140    |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                        | Females   |            |            |           |           |           |
|-----------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                             | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Liver</b>                |           |            |            |           |           |           |
| <b>Inflammation Chronic</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>         |           |            |            |           |           |           |
| OVERALL (a)                 | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)             | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)          | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE             | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>    |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                     | Females   |            |            |           |            |            |
|--------------------------|-----------|------------|------------|-----------|------------|------------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG   |
| <b>Lung Congestion</b>   |           |            |            |           |            |            |
| <b>LESION RATES</b>      |           |            |            |           |            |            |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 2/10 (20%) | 3/10 (30%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 2/7.25     | 3/3.94     |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 27.6%      | 76.2%      |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)   | 0/0 (0%)   |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | 72         | 49         |
| <b>STATISTICAL TESTS</b> |           |            |            |           |            |            |
| POLY 3                   | (e)       | (e)        | (e)        | (e)       | P=0.155    | P=0.007**  |
| POLY 1.5                 | (e)       | (e)        | (e)        | (e)       | P=0.183    | P=0.020*   |
| POLY 6                   | (e)       | (e)        | (e)        | (e)       | P=0.125    | P=0.004**  |
| COCH-ARM / FISHERS       | P=0.016*  | (e)        | (e)        | (e)       | P=0.237    | P=0.105    |
| MAX-ISO-POLY-3           | (e)       | (e)        | (e)        | (e)       | P=0.060    | P=0.008**  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Females   |            |            |           |            |           |
|--------------------------|-----------|------------|------------|-----------|------------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG   | 75 MG/KG  |
| <b>Lung Hemorrhage</b>   |           |            |            |           |            |           |
| <b>LESION RATES</b>      |           |            |            |           |            |           |
| OVERALL (a)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 2/10 (20%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 2/7.56     | 0/1.47    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 26.5%      | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)   | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | 65         | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |           |            |           |
| POLY 3                   | (e)       | (e)        | (e)        | (e)       | P=0.163    | (e)       |
| POLY 1.5                 | (e)       | (e)        | (e)        | (e)       | P=0.189    | (e)       |
| POLY 6                   | (e)       | (e)        | (e)        | (e)       | P=0.133    | (e)       |
| COCH-ARM / FISHERS       | P=0.373   | (e)        | (e)        | (e)       | P=0.237    | (e)       |
| MAX-ISO-POLY-3           | (e)       | (e)        | (e)        | (e)       | P=0.061    | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                   | Females   |            |            |            |           |           |
|--|-----------|------------|------------|------------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Lung</b>                            |           |            |            |            |           |           |
| Infiltration Cellular Focal Histiocyte |           |            |            |            |           |           |
| <b>LESION RATES</b>                    |           |            |            |            |           |           |
| OVERALL (a)                            | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                        | 0/10.00   | 0/0.00     | 0/0.00     | 1/10.00    | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)                     | 0%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)                           | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                        | ---       | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>               |           |            |            |            |           |           |
| POLY 3                                 | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 1.5                               | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 6                                 | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| COCH-ARM / FISHERS                     | P=0.500N  | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| MAX-ISO-POLY-3                         | (e)       | (e)        | (e)        | P=0.158    | (e)       | (e)       |



Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                      | Females   |            |            |            |           |           |
|---------------------------|-----------|------------|------------|------------|-----------|-----------|
|                           | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Lung</b>               |           |            |            |            |           |           |
| <b>Inflammation Acute</b> |           |            |            |            |           |           |
| <b>LESION RATES</b>       |           |            |            |            |           |           |
| OVERALL (a)               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)           | 0/10.00   | 0/0.00     | 0/0.00     | 1/10.00    | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)        | 0%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)              | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE           | ---       | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>  |           |            |            |            |           |           |
| POLY 3                    | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 1.5                  | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| POLY 6                    | (e)       | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| COCH-ARM / FISHERS        | P=0.500N  | (e)        | (e)        | P=0.500    | (e)       | (e)       |
| MAX-ISO-POLY-3            | (e)       | (e)        | (e)        | P=0.158    | (e)       | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                      | Females    |            |            |           |           |           |
|---------------------------|------------|------------|------------|-----------|-----------|-----------|
|                           | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Pancreas: Acinus</b>   |            |            |            |           |           |           |
| <b>Atrophy Focal</b>      |            |            |            |           |           |           |
| <b>LESION RATES</b>       |            |            |            |           |           |           |
| <b>OVERALL (a)</b>        | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| <b>POLY-3 RATE (b)</b>    | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| <b>POLY-3 PERCENT (g)</b> | 10%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| <b>TERMINAL (d)</b>       | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| <b>FIRST INCIDENCE</b>    | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>  |            |            |            |           |           |           |
| <b>POLY 3</b>             | (e)        | (e)        | (e)        | P=0.500N  | P=0.584N  | P=0.725N  |
| <b>POLY 1.5</b>           | (e)        | (e)        | (e)        | P=0.500N  | P=0.547N  | P=0.659N  |
| <b>POLY 6</b>             | (e)        | (e)        | (e)        | P=0.500N  | P=0.630N  | P=0.755N  |
| <b>COCH-ARM / FISHERS</b> | P=0.183N   | (e)        | (e)        | P=0.500N  | P=0.500N  | P=0.500N  |
| <b>MAX-ISO-POLY-3</b>     | (e)        | (e)        | (e)        | P=0.158N  | P=0.260N  | P=0.441N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                          | Females   |            |            |           |           |          |
|-------------------------------|-----------|------------|------------|-----------|-----------|----------|
|                               | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG |
| <b>Parathyroid Gland Cyst</b> |           |            |            |           |           |          |
| <b>LESION RATES</b>           |           |            |            |           |           |          |
| OVERALL (a)                   | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/9 (0%) |
| POLY-3 RATE (b)               | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.33   |
| POLY-3 PERCENT (g)            | 0%        | 0%         | 0%         | 0%        | 0%        | 0%       |
| TERMINAL (d)                  | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%) |
| FIRST INCIDENCE               | ---       | ---        | ---        | ---       | ---       | ---      |
| <b>STATISTICAL TESTS</b>      |           |            |            |           |           |          |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                       | Females   |            |            |           |           |           |
|--|-----------|------------|------------|-----------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Pituitary Gland: Pars Distalis Cyst</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>                        |           |            |            |           |           |           |
| OVERALL (a)                                | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                            | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)                         | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                               | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                            | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                   |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                          | Females   |            |            |          |           |           |
|-------------------------------|-----------|------------|------------|----------|-----------|-----------|
|                               | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG | 50 MG/KG  | 75 MG/KG  |
| <b>Spinal Cord Congestion</b> |           |            |            |          |           |           |
| <b>LESION RATES</b>           |           |            |            |          |           |           |
| OVERALL (a)                   | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/5 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)               | 0/10.00   | 0/0.00     | 0/0.00     | 0/5.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)            | 0%        | 0%         | 0%         | 0%       | 0%        | 0%        |
| TERMINAL (d)                  | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/5 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE               | ---       | ---        | ---        | ---      | ---       | ---       |
| <b>STATISTICAL TESTS</b>      |           |            |            |          |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                    | Females    |            |            |            |           |           |
|---|------------|------------|------------|------------|-----------|-----------|
|   | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG   | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>                           |            |            |            |            |           |           |
| <b>Hematopoietic Cell Proliferation</b> |            |            |            |            |           |           |
| <b>LESION RATES</b>                     |            |            |            |            |           |           |
| OVERALL (a)                             | 1/10 (10%) | 0/1 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                         | 1/10.00    | 0/1.00     | 0/0.00     | 1/10.00    | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)                      | 10%        | 0%         | 0%         | 10%        | 0%        | 0%        |
| TERMINAL (d)                            | 1/10 (10%) | 0/1 (0%)   | 0/0 (0%)   | 1/10 (10%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                         | 93 (T)     | ---        | ---        | 93 (T)     | ---       | ---       |
| <b>STATISTICAL TESTS</b>                |            |            |            |            |           |           |
| POLY 3                                  | (e)        | P=0.913N   | (e)        | P=0.760    | P=0.584N  | P=0.725N  |
| POLY 1.5                                | (e)        | P=0.913N   | (e)        | P=0.760    | P=0.547N  | P=0.659N  |
| POLY 6                                  | (e)        | P=0.913N   | (e)        | P=0.760    | P=0.630N  | P=0.755N  |
| COCH-ARM / FISHERS                      | P=0.176N   | P=0.909N   | (e)        | P=0.763N   | P=0.500N  | P=0.500N  |
| MAX-ISO-POLY-3                          | (e)        | P=0.411N   | (e)        | P=1.000    | P=0.260N  | P=0.441N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                       | Females   |            |            |           |           |           |
|----------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                            | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>              |           |            |            |           |           |           |
| Hyperplasia Focal Lymphoid |           |            |            |           |           |           |
| <b>LESION RATES</b>        |           |            |            |           |           |           |
| OVERALL (a)                | 0/10 (0%) | 1/1 (100%) | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)            | 0/10.00   | 1/1.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)         | 0%        | 100%       | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)               | 0/10 (0%) | 1/1 (100%) | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE            | ---       | 93 (T)     | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>   |           |            |            |           |           |           |
| POLY 3                     | (e)       | P=0.091    | (e)        | (e)       | (e)       | (e)       |
| POLY 1.5                   | (e)       | P=0.091    | (e)        | (e)       | (e)       | (e)       |
| POLY 6                     | (e)       | P=0.091    | (e)        | (e)       | (e)       | (e)       |
| COCH-ARM / FISHERS         | P=0.258N  | P=0.091    | (e)        | (e)       | (e)       | (e)       |
| MAX-ISO-POLY-3             | (e)       | P<0.001**  | (e)        | (e)       | (e)       | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Females   |            |            |           |           |           |
|--------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>            |           |            |            |           |           |           |
| Hyperplasia Lymphoid     |           |            |            |           |           |           |
| <b>LESION RATES</b>      |           |            |            |           |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/1 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/1.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/1 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                  | Females   |            |            |           |           |           |
|---------------------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                                       | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Spleen</b>                         |           |            |            |           |           |           |
| <b>Pigmentation Focal Hemosiderin</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>                   |           |            |            |           |           |           |
| OVERALL (a)                           | 0/10 (0%) | 0/1 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                       | 0/10.00   | 0/1.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)                    | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                          | 0/10 (0%) | 0/1 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                       | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>              |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                           | Females    |            |            |           |           |           |
|--------------------------------|------------|------------|------------|-----------|-----------|-----------|
|                                | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular Cyst</b> |            |            |            |           |           |           |
| <b>LESION RATES</b>            |            |            |            |           |           |           |
| OVERALL (a)                    | 2/10 (20%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                | 2/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)             | 20%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                   | 2/10 (20%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>       |            |            |            |           |           |           |
| POLY 3                         | (e)        | (e)        | (e)        | P=0.227N  | P=0.340N  | P=0.616N  |
| POLY 1.5                       | (e)        | (e)        | (e)        | P=0.227N  | P=0.286N  | P=0.472N  |
| POLY 6                         | (e)        | (e)        | (e)        | P=0.227N  | P=0.418N  | P=0.689N  |
| COCH-ARM / FISHERS             | P=0.052N   | (e)        | (e)        | P=0.237N  | P=0.237N  | P=0.237N  |
| MAX-ISO-POLY-3                 | (e)        | (e)        | (e)        | P=0.067N  | P=0.168N  | P=0.413N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE                            | Females   |            |            |           |           |           |
|---------------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                                 | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular Edema</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>             |           |            |            |           |           |           |
| OVERALL (a)                     | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                 | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)              | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                    | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                 | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>        |           |            |            |           |           |           |
| 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: 99037 - 04  
 Test Type: 90-DAY  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: 76231-76-0

Date Report Requested: 09/20/2016  
 Time Report Requested: 15:14:27  
 First Dose M/F: 08/14/02 / 08/15/02  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

| DOSE   | Females   |            |            |           |           |           |
|--|-----------|------------|------------|-----------|-----------|-----------|
|  | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular<br/>Infiltration Cellular Eosinophil</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>  |           |            |            |           |           |           |
| OVERALL (a)  | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)  | 0/10.00   | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)   | 0%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)   | 0/10 (0%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE  | ---       | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                                       |           |            |            |           |           |           |
| 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: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                                     | Females    |            |            |           |           |           |
|--|------------|------------|------------|-----------|-----------|-----------|
|  | 0 MG/KG    | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Stomach, Glandular Mineralization</b> |            |            |            |           |           |           |
| <b>LESION RATES</b>                      |            |            |            |           |           |           |
| OVERALL (a)                              | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)                          | 1/10.00    | 0/0.00     | 0/0.00     | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)                       | 10%        | 0%         | 0%         | 0%        | 0%        | 0%        |
| TERMINAL (d)                             | 1/10 (10%) | 0/0 (0%)   | 0/0 (0%)   | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE                          | 93 (T)     | ---        | ---        | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b>                 |            |            |            |           |           |           |
| POLY 3                                   | (e)        | (e)        | (e)        | P=0.500N  | P=0.584N  | P=0.725N  |
| POLY 1.5                                 | (e)        | (e)        | (e)        | P=0.500N  | P=0.547N  | P=0.659N  |
| POLY 6                                   | (e)        | (e)        | (e)        | P=0.500N  | P=0.630N  | P=0.755N  |
| COCH-ARM / FISHERS                       | P=0.183N   | (e)        | (e)        | P=0.500N  | P=0.500N  | P=0.500N  |
| MAX-ISO-POLY-3                           | (e)        | (e)        | (e)        | P=0.158N  | P=0.260N  | P=0.441N  |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/20/2016

Time Report Requested: 15:14:27

First Dose M/F: 08/14/02 / 08/15/02

Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS

| DOSE                     | Females   |            |            |           |           |           |
|--------------------------|-----------|------------|------------|-----------|-----------|-----------|
|                          | 0 MG/KG   | 6.25 MG/KG | 12.5 MG/KG | 25 MG/KG  | 50 MG/KG  | 75 MG/KG  |
| <b>Uterus Dilatation</b> |           |            |            |           |           |           |
| <b>LESION RATES</b>      |           |            |            |           |           |           |
| OVERALL (a)              | 0/10 (0%) | 0/10 (0%)  | 1/10 (10%) | 0/10 (0%) | 0/10 (0%) | 0/10 (0%) |
| POLY-3 RATE (b)          | 0/10.00   | 0/10.00    | 1/10.00    | 0/10.00   | 0/6.42    | 0/1.47    |
| POLY-3 PERCENT (g)       | 0%        | 0%         | 10%        | 0%        | 0%        | 0%        |
| TERMINAL (d)             | 0/10 (0%) | 0/10 (0%)  | 1/10 (10%) | 0/10 (0%) | 0/3 (0%)  | 0/0 (0%)  |
| FIRST INCIDENCE          | ---       | ---        | 93 (T)     | ---       | ---       | ---       |
| <b>STATISTICAL TESTS</b> |           |            |            |           |           |           |
| POLY 3                   | P=0.618N  | (e)        | P=0.500    | (e)       | (e)       | (e)       |
| POLY 1.5                 | P=0.587N  | (e)        | P=0.500    | (e)       | (e)       | (e)       |
| POLY 6                   | P=0.704N  | (e)        | P=0.500    | (e)       | (e)       | (e)       |
| COCH-ARM / FISHERS       | P=0.453N  | (e)        | P=0.500    | (e)       | (e)       | (e)       |
| MAX-ISO-POLY-3           | P=0.790   | (e)        | P=0.158    | (e)       | (e)       | (e)       |

Experiment Number: 99037 - 04

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

alpha/beta Thujone mixture

CAS Number: 76231-76-0

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Lab: SRI

**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 \*\*\*