

Experiment Number: A17639

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **alpha-Thujone**

CAS Number: **546-80-5**

Date Report Requested: **09/16/2018**

Time Report Requested: **02:05:06**

**NTP Study Number:**

A17639

**Study Result:**

Negative

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**Strain: TA100**

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	48 ± 3.4	59 ± 14.5	57 ± 4.4	67 ± 7.8
10.0	51 ± 3.5	31 ± 3.8		
50.0	53 ± 1.9	31 ± 3.5	54 ± 2.6	75 ± 6.5
100.0	40 ± 1.7	51 ± 2.1	61 ± 5.0	66 ± 2.5
250.0	35 ± 0.9	39 ± 3.8		
500.0	16 ± 2.7	13 ± 2.9	53 ± 6.2	51 ± 8.4
1000.0			28 ± 3.9	25 ± 6.1
1500.0				2 ± 1.7
2000.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	574 ± 1.2	570 ± 13.0		
Positive Control <sup>3</sup>			544 ± 6.9	1121 ± 88.5

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	28 ± 1.5	15 ± 1.2	13 ± 1.2	22 ± 3.5	18 ± 4.4
10.0	26 ± 0.7	22 ± 2.2	13 ± 1.0		
50.0	23 ± 2.0	24 ± 1.7	13 ± 1.8	26 ± 4.4	23 ± 2.6
100.0	27 ± 1.5	28 ± 4.9	18 ± 3.5	20 ± 3.6	18 ± 2.6
250.0	27 ± 1.9	7 ± 1.5 <sup>P</sup>	4 ± 0.9		
350.0		7 ± 2.3 <sup>P</sup>	1 ± 0.6		
500.0	Toxic	5 ± 2.0 <sup>P</sup>		25 ± 5.2	31 ± 7.6
1000.0				21 ± 3.8	26 ± 2.3
1500.0					6 ± 1.9
2000.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>				1008 ± 31.5	1261 ± 29.6
Positive Control <sup>4</sup>	468 ± 17.3	471 ± 24.3	572 ± 8.4		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	139 ± 1.9	164 ± 15.0	208 ± 7.2	160 ± 12.9
10.0	143 ± 8.1	174 ± 27.0		
50.0	161 ± 5.9	144 ± 1.7	228 ± 13.3	210 ± 31.7
100.0	175 ± 14.8	142 ± 13.2	212 ± 3.3	139 ± 11.5
250.0	174 ± 7.1	168 ± 16.8		
500.0	131 ± 4.0	72 ± 9.0	183 ± 11.3	137 ± 4.8
1000.0			173 ± 12.3	95 ± 10.1
1500.0				79 ± 10.7
2000.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>5</sup>			1204 ± 23.5	821 ± 28.0
Positive Control <sup>6</sup>	1529 ± 121.3	854 ± 66.5		

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#### LEGEND

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Values given as Mean or Mean  $\pm$  Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

\*\* END OF REPORT \*\*