

Experiment Number: A36495

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/16/2018

Time Report Requested: 18:41:57

NTP Study Number:

A36495

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	179 ± 5.9	173 ± 15.7	143 ± 0.5	146 ± 4.9	145 ± 2.9
1.0	193 ± 5.2				
3.3	167 ± 15.4	185 ± 7.9	174 ± 6.6	155 ± 1.5	158 ± 15.9
10.0	166 ± 14.5	157 ± 5.2	167 ± 8.6	166 ± 11.7	176 ± 6.8
33.0	142 ± 16.7	128 ± 4.7	155 ± 4.8	166 ± 7.0	180 ± 5.9
50.0	163 ± 8.1				
100.0		154 ± 2.9	153 ± 8.9	169 ± 8.7	161 ± 5.2
200.0				136 ± 6.1	
333.0		Toxic	Toxic		108 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					454 ± 20.7
Positive Control ³	622 ± 11.6	488 ± 3.3			
Positive Control ⁴			665 ± 39.5		
Positive Control ⁵					
Positive Control ⁶				626 ± 7.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	182 ± 3.1
1.0	
3.3	215 ± 11.0
10.0	213 ± 9.3
33.0	187 ± 37.9
50.0	
100.0	177 ± 5.5
200.0	165 ± 7.0
333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	1430 ± 68.8
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 4.4	13 ± 1.9	19 ± 2.2	11 ± 2.0	14 ± 2.8
1.0	9 ± 0.7				
3.3	9 ± 1.8	18 ± 3.2		11 ± 1.5	
10.0	10 ± 1.7	17 ± 2.9	17 ± 0.9	12 ± 0.7	16 ± 2.3
33.0	11 ± 2.6	12 ± 1.8	14 ± 2.1	14 ± 2.3	17 ± 1.7
100.0	11 ± 0.0	12 ± 1.2 ^s	20 ± 0.9	13 ± 1.2	14 ± 2.7
333.0		0 ± 0.0 ^s	14 ± 3.1 ^s	12 ± 2.3	16 ± 3.1 ^s
1000.0			Toxic		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					116 ± 8.7
Positive Control ³	137 ± 3.8	257 ± 17.0			
Positive Control ⁵					
Positive Control ⁶			102 ± 2.8	66 ± 5.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.5
1.0	
3.3	13 ± 2.0
10.0	14 ± 1.3
33.0	11 ± 1.9
100.0	9 ± 1.5
333.0	10 ± 1.2
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	161 ± 23.5
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	123 ± 2.3	158 ± 11.1	147 ± 9.0	156 ± 9.0	144 ± 1.5
1.0	127 ± 9.7				
3.3	118 ± 5.8	163 ± 4.3		159 ± 6.1	
10.0	114 ± 9.9	188 ± 3.2	154 ± 12.5	169 ± 6.7	169 ± 20.0
33.0	116 ± 6.4	172 ± 13.1	138 ± 20.0	169 ± 7.9	160 ± 9.4
100.0	134 ± 8.2	191 ± 10.1	135 ± 7.6	157 ± 11.2	177 ± 6.3
333.0		Toxic	114 ± 3.1 ^s	141 ± 13.4	128 ± 3.5 ^s
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1389 ± 48.1
Positive Control ⁶			1006 ± 64.9	413 ± 37.6	
Positive Control ⁷	287 ± 22.3	883 ± 14.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	126 ± 8.4
1.0	
3.3	115 ± 11.0
10.0	132 ± 11.4
33.0	139 ± 11.1
100.0	129 ± 10.2
333.0	131 ± 10.4 ^s
1000.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	921 ± 91.0
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.0	20 ± 2.2	23 ± 3.8	15 ± 0.7	26 ± 3.6
1.0	13 ± 0.7				
3.3	14 ± 0.6	16 ± 1.0		17 ± 0.9	
10.0	16 ± 0.9	19 ± 1.5	24 ± 2.3	19 ± 1.2	30 ± 3.3
33.0	16 ± 0.3	13 ± 0.9	20 ± 1.5	16 ± 0.7	26 ± 2.6
50.0	15 ± 0.3				
100.0		20 ± 5.3	25 ± 2.1	14 ± 0.9	23 ± 0.6
200.0				16 ± 0.7	
333.0		0 ± 0.0 ^s	21 ± 0.9		23 ± 4.2 ^s
1000.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			321 ± 29.3		925 ± 93.5
Positive Control ⁸	157 ± 41.0	98 ± 9.8			
Positive Control ⁵				370 ± 60.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.7
1.0	
3.3	15 ± 0.7
10.0	17 ± 1.7
33.0	15 ± 0.9
50.0	
100.0	16 ± 1.5
200.0	17 ± 1.5
333.0	
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	1068 ± 39.7

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LEGEND

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: 100% Ethanol

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****