

Experiment Number: A29697

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

G06: Ames Summary Data

Test Compound: **alpha-Pinene**

CAS Number: **80-56-8**

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

Time Report Requested: **15:04:15**

NTP Study Number:

A29697

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	38 ± 3.8	49 ± 2.0	57 ± 7.2	48 ± 9.7	70 ± 2.2
5.0			48 ± 2.3		
10.0	45 ± 5.9	46 ± 5.3	49 ± 4.3		
25.0			52 ± 1.8		
50.0	41 ± 13.4	44 ± 3.5	29 ± 2.9	50 ± 6.7	65 ± 5.5
75.0			14 ± 0.6		
100.0	54 ± 14.7	63 ± 4.5		40 ± 3.5	80 ± 1.2
200.0		57 ± 4.2			
250.0	19 ± 5.8				
400.0		10 ± 0.9			
500.0	12 ± 3.7			52 ± 5.5	63 ± 5.9
1000.0				38 ± 2.3	58 ± 10.8
1500.0					
2500.0					
5000.0				27 ± 2.1 ^s	33 ± 3.2
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	574 ± 1.2	428 ± 39.3	387 ± 19.3		
Positive Control ³				510 ± 26.7	738 ± 30.5

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	63 ± 3.8	56 ± 1.8
5.0		
10.0		
25.0		
50.0	57 ± 5.2	
75.0		
100.0	85 ± 15.0	
200.0		
250.0		
400.0		
500.0	48 ± 4.4	49 ± 4.4
1000.0	39 ± 2.6	
1500.0		46 ± 2.0
2500.0		50 ± 2.0
5000.0	90 ± 4.3	21 ± 0.9
10000.0		11 ± 0.7
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³	1161 ± 65.4	665 ± 29.1

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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 ¹	22 ± 2.7	15 ± 2.9	21 ± 2.4	28 ± 5.3	22 ± 2.1
5.0		10 ± 3.2	23 ± 3.2		
10.0	25 ± 3.0	9 ± 0.6	19 ± 4.4		
20.0		8 ± 3.1			
25.0			18 ± 0.3		
30.0		6 ± 0.9			
40.0		4 ± 1.2 ^p			
50.0	8 ± 1.7 ^s		18 ± 2.7	20 ± 2.9	22 ± 1.2
75.0			9 ± 1.9		
100.0	15 ± 2.2 ^s			31 ± 3.2	21 ± 2.6
200.0					
250.0	4 ± 1.2 ^s				
400.0					
500.0	Toxic			25 ± 2.3	19 ± 2.4
1000.0				28 ± 4.8	35 ± 2.5
1500.0					
2500.0					
5000.0				15 ± 1.2 ^s	7 ± 0.7
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					372 ± 38.1
Positive Control ³				1008 ± 31.5	
Positive Control ⁵	468 ± 17.3	506 ± 17.4	295 ± 14.3		
Positive Control ⁶					

Experiment Number: A29697
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: alpha-Pinene
CAS Number: 80-56-8

Date Report Requested: 09/16/2018
Time Report Requested: 15:04:15

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	30 ± 4.2
5.0	
10.0	
20.0	
25.0	
30.0	
40.0	
50.0	
75.0	
100.0	
200.0	
250.0	
400.0	
500.0	32 ± 0.7
1000.0	
1500.0	24 ± 5.4
2500.0	21 ± 1.2
5000.0	13 ± 2.7
10000.0	9 ± 0.6
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	418 ± 21.8
Positive Control ⁵	
Positive Control ⁶	

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	161 ± 7.2	181 ± 46.1	136 ± 1.5	204 ± 12.3	266 ± 53.5
100.0	141 ± 5.2	90 ± 7.8	139 ± 4.4	224 ± 4.1	210 ± 1.5
500.0	135 ± 11.8	89 ± 1.9	175 ± 31.4	193 ± 13.1	208 ± 3.3
1000.0	137 ± 3.2	84 ± 18.7	156 ± 8.7	207 ± 17.2	287 ± 46.0
5000.0	132 ± 4.0	94 ± 4.7	148 ± 3.1	184 ± 20.8	162 ± 10.5
10000.0	126 ± 2.3	78 ± 5.1	165 ± 9.6	188 ± 12.5	174 ± 23.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷				1171 ± 9.9	710 ± 32.1
Positive Control ⁸	1529 ± 121.3	1183 ± 140.0	930 ± 19.3		

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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: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 2.5 nmoles/L 2-Aminoanthracene

5: 5.0 ug/Plate 2-Nitrofluorene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 20.0 ug/Plate 2-Aminoanthracene

8: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

s: Slight Toxicity

** END OF REPORT **