

Experiment Number: **G03014**

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

G06: Ames Summary Data

Test Compound: **alpha-Pinene**

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

Date Report Requested: **10/02/2020**

Time Report Requested: **15:16:14**

NTP Study Number:

G03014

Study Result:

Negative

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Strain: TA100

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	144.3 ± 1.2	183 ± 6.1	131 ± 5.7	166.7 ± 4.8
200	74.3 ± 1.9	87.3 ± 6.6	132.3 ± 1.8	172 ± 5.0
500	87 ± 9.7	85.7 ± 5.7	111.7 ± 8.1	84 ± 2.3
1000	81.7 ± 8.3	83.3 ± 6.8	77.3 ± 7.2	78 ± 10.0
3000	79.3 ± 1.3	77 ± 2.3	73.7 ± 3.2	63.7 ± 7.6
6000	92 ± 8.1	67.7 ± 2.3	70 ± 12.3	63.7 ± 6.2
10000	47.7 ± 8.0	66 ± 7.5	72 ± 4.0	75.7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	485 ± 7.6	467 ± 17.2		
Positive Control ³			381.7 ± 25.3	413.3 ± 8.8

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Strain: TA98

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 1.7	20.3 ± 1.7	17.3 ± 2.7	26.7 ± 2.0
200	8.7 ± 0.3	13.7 ± 3.8	23.7 ± 1.5	30 ± 3.1
500	11.3 ± 0.9	14.7 ± 2.2	23 ± 2.3	25.7 ± 1.7
1000	13.7 ± 3.5	16.3 ± 4.8	17.3 ± 2.0	20 ± 1.0
3000	16.3 ± 2.3	13 ± 2.9	18 ± 2.0	14.7 ± 4.1
6000	15 ± 2.5	18 ± 4.2	17 ± 3.0	21.3 ± 4.3
10000	15.7 ± 1.3	12.7 ± 1.8	20.3 ± 3.5	20 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			1464.7 ± 115.0	1786.3 ± 20.5
Positive Control ⁵	428 ± 14.6	469.3 ± 15.8		

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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 ¹	111 ± 3.6	129 ± 4.0	153 ± 3.2	164 ± 5.1
200	146.3 ± 7.5	115 ± 6.1	118 ± 6.7	129 ± 11.4
500	154 ± 9.5	130 ± 9.5	122.3 ± 4.4	130 ± 18.4
1000	139 ± 13.9	109.3 ± 4.1	115.3 ± 9.5	132.7 ± 6.4
3000	151.3 ± 6.3	104.3 ± 7.3	128.7 ± 4.4	153.7 ± 3.7
6000	135.7 ± 1.8	123.3 ± 5.8	128.7 ± 5.7	168.3 ± 5.2
10000	128.3 ± 15.3	131 ± 3.5	145.7 ± 1.8	150 ± 7.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶	1366.7 ± 173.5	1346.7 ± 102.2		
Positive Control ⁷			1001.3 ± 34.5	903 ± 24.6

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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

The S9 fraction refers to the liver unless otherwise indicated

1: Vehicle Control: DMSO

2: 1 ug/plate Sodium Azide

3: 2 ug/plate Benzo[a]pyrene

4: 2 ug/plate 2-Aminoanthracene

5: 3 ug/plate 2-Nitrofluorene

6: 0.25 ug/plate 4-Nitroquinoline-N-oxide

7: 20 ug/plate 2-Aminoanthracene

**** END OF REPORT ****