

Experiment Number: **G98045**

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

G06: Ames Summary Data

Test Compound: **Pulegone**

CAS Number: **89-82-7**

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

Time Report Requested: **11:30:18**

NTP Study Number:

G98045

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	111 ± 7.4	87 ± 5.5	91 ± 4.1	108 ± 15.5	106 ± 9.1
12.5	140 ± 29.9	84 ± 7.3	113 ± 8.3	110 ± 6.1	
25.0					
50.0	141 ± 5.8	88 ± 9.5	113 ± 2.0	100 ± 9.0	
75.0		91 ± 4.3			
100.0					
125.0	109 ± 2.1	94 ± 6.9	109 ± 4.4	106 ± 1.7	92 ± 2.6
250.0		90 ± 11.1			90 ± 10.0
500.0	63 ± 31.8	66 ± 11.8	145 ± 3.5	214 ± 14.1	88 ± 7.0
750.0	Toxic	Toxic	103 ± 2.3	193 ± 17.0	54 ± 5.0 ^s
1000.0					Toxic
1500.0	Toxic		Toxic	140 ± 76.5	Toxic
Trial Summary	Negative	Negative	Negative	Weakly Positive	Negative
Positive Control ²	993 ± 20.2	792 ± 11.3			
Positive Control ³			1710 ± 14.5	2110 ± 76.2	1465 ± 86.2

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	111 ± 6.0
12.5	
25.0	89 ± 2.5
50.0	98 ± 6.4
75.0	
100.0	114 ± 8.3
125.0	
250.0	95 ± 1.7
500.0	103 ± 11.6
750.0	71 ± 2.3
1000.0	
1500.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	2177 ± 64.2

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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	18 ± 1.7	23 ± 1.0	31 ± 4.0	28 ± 2.6	32 ± 1.8
12.5	25 ± 2.5	24 ± 2.4		30 ± 3.2	32 ± 3.2
25.0			29 ± 1.9		
50.0	22 ± 2.0	48 ± 13.8	26 ± 3.2	31 ± 2.6	27 ± 3.0
100.0			32 ± 4.7		
125.0	29 ± 1.7	40 ± 3.1		30 ± 2.2	34 ± 1.8
250.0			25 ± 4.1		
500.0	21 ± 4.1	24 ± 0.9	24 ± 3.5	45 ± 0.3	80 ± 11.4
750.0	24 ± 4.3	54 ± 8.5	3 ± 2.0 ^s	69 ± 1.2	131 ± 6.4
1500.0	Toxic	Toxic	Toxic	Toxic	28 ± 16.5
Trial Summary	Negative	Equivocal	Negative	Positive	Positive
Positive Control ⁴				1191 ± 54.4	1357 ± 80.3
Positive Control ⁵	569 ± 33.2	637 ± 25.6	787 ± 15.4		

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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 ¹	109 ± 4.8	144 ± 1.8	197 ± 7.0	182 ± 10.0
12.5	129 ± 1.9		185 ± 8.7	197 ± 13.9
25.0		150 ± 5.6		
50.0	128 ± 9.3	148 ± 2.6	185 ± 7.1	198 ± 8.0
100.0		150 ± 10.8		
125.0	124 ± 8.5		203 ± 5.8	172 ± 7.6
250.0		141 ± 13.9		
500.0	111 ± 7.4	145 ± 2.0	432 ± 24.8	389 ± 10.7
750.0	Toxic	Toxic	606 ± 19.2	581 ± 65.7
1500.0	Toxic	Toxic	Toxic	159 ± 11.2
Trial Summary	Negative	Negative	Positive	Positive
Positive Control ⁶			1147 ± 43.2	1077 ± 39.4
Positive Control ⁷	907 ± 29.6	913 ± 13.0		

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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: 2.0 ug/Plate 2-Aminoanthracene
- 5: 3.0 ug/Plate 2-Nitrofluorene
- 6: 20.0 ug/Plate 2-Aminoanthracene
- 7: 100.0 ug/Plate Methyl Methane Sulfonate
- s: Slight Toxicity

**** END OF REPORT ****