

Experiment Number: A65321

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

G06: Ames Summary Data

Test Compound: **Pulegone**

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

Date Report Requested: **09/17/2018**

Time Report Requested: **13:08:27**

NTP Study Number:

A65321

Study Result:

Negative

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Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 09/17/2018

Time Report Requested: 13:08:27

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 11.2	137 ± 10.9	174 ± 4.4	165 ± 4.7	168 ± 4.0
3.3		143 ± 3.5			
10.0	115 ± 1.5	173 ± 7.7	168 ± 8.3	137 ± 12.7	158 ± 14.2
33.0	121 ± 17.1	153 ± 8.7	163 ± 4.8	157 ± 11.9	159 ± 6.9
100.0	117 ± 14.6	156 ± 14.4	143 ± 4.1	144 ± 2.3	163 ± 10.0
333.0	91 ± 9.3 ^s	147 ± 6.8	150 ± 9.8	127 ± 6.6	163 ± 5.4
500.0					
1000.0	Toxic	10 ± 2.6 ^s	Toxic	108 ± 14.9 ^s	3 ± 0.7 ^s
2167.0			0 ± 0.0 ^s	34 ± 34.0 ^s	1 ± 0.9 ^s
3333.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					336 ± 17.6
Positive Control ³	503 ± 27.8	413 ± 19.7			
Positive Control ⁴			591 ± 41.8		
Positive Control ⁵					
Positive Control ⁶				973 ± 27.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	123 ± 9.3
3.3	
10.0	124 ± 5.0
33.0	119 ± 5.4
100.0	123 ± 8.1
333.0	133 ± 11.2
500.0	
1000.0	79 ± 39.3 ^s
2167.0	0 ± 0.0 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	494 ± 43.2
Positive Control ⁶	

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Date Report Requested: 09/17/2018

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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	11 ± 2.6	7 ± 0.7	13 ± 1.5	11 ± 0.9	10 ± 0.7
3.3		12 ± 0.9			
10.0	5 ± 0.7	9 ± 0.9	9 ± 3.1		11 ± 2.5
33.0	10 ± 1.9	9 ± 2.3	9 ± 0.7	11 ± 1.3	14 ± 2.2
100.0	8 ± 1.8	12 ± 1.5	11 ± 0.3	12 ± 0.9	9 ± 1.0
333.0	4 ± 2.0 ^s	13 ± 1.2	11 ± 1.2	8 ± 0.7	8 ± 1.5
1000.0	0 ± 0.0 ^s	Toxic	Toxic	0 ± 0.0 ^s	4 ± 1.7 ^s
2167.0			Toxic	0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					36 ± 5.2
Positive Control ³	128 ± 5.7	197 ± 35.7			
Positive Control ⁵					
Positive Control ⁶			212 ± 27.8	165 ± 5.0	

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Test Compound: Pulegone
CAS Number: 89-82-7

Date Report Requested: 09/17/2018
Time Report Requested: 13:08:27

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
3.3	
10.0	
33.0	12 ± 2.2
100.0	8 ± 3.0
333.0	13 ± 1.5
1000.0	Toxic
2167.0	0 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	67 ± 6.4
Positive Control ⁶	

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Test Compound: Pulegone

CAS Number: 89-82-7

Date Report Requested: 09/17/2018

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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	107 ± 3.2	143 ± 5.0	168 ± 13.7	170 ± 7.5	161 ± 16.5
3.3		171 ± 6.8			
10.0	110 ± 5.6	168 ± 6.0	150 ± 10.2		181 ± 3.5
33.0	87 ± 4.4	167 ± 6.3	186 ± 16.8	189 ± 13.9	185 ± 1.5
100.0	106 ± 3.6	165 ± 2.7	209 ± 15.8	184 ± 3.8	190 ± 2.5
333.0	46 ± 7.4 ^s	145 ± 2.2	159 ± 7.1	140 ± 7.1	166 ± 14.1
1000.0	Toxic	7 ± 4.4 ^s	9 ± 3.2 ^s	Toxic	Toxic
2167.0			20 ± 16.2 ^s	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					522 ± 10.7
Positive Control ⁶			776 ± 37.3	512 ± 16.0	
Positive Control ⁷	749 ± 54.9	1732 ± 51.9			

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Date Report Requested: 09/17/2018
Time Report Requested: 13:08:27

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	121 ± 7.7
3.3	
10.0	
33.0	150 ± 6.8
100.0	160 ± 7.5
333.0	160 ± 1.8
1000.0	Toxic
2167.0	Toxic
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	725 ± 16.6
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	13 ± 1.2	14 ± 1.9	16 ± 2.2	23 ± 1.9	17 ± 1.5
3.3		12 ± 2.3			
10.0	13 ± 2.3	9 ± 0.3	12 ± 0.9	27 ± 3.0	14 ± 1.5
33.0	15 ± 2.7	8 ± 2.2	13 ± 0.9	24 ± 3.2	14 ± 0.6
100.0	13 ± 1.2	5 ± 1.9	9 ± 1.3	24 ± 2.0	16 ± 2.8
333.0	11 ± 0.3	14 ± 0.9	14 ± 2.1	21 ± 4.6	17 ± 1.2
500.0					
1000.0	Toxic	1 ± 0.3 ^s	Toxic	6 ± 4.3 ^s	2 ± 0.7 ^s
2167.0			Toxic	8 ± 3.2 ^s	0 ± 0.0 ^s
3333.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			259 ± 7.1		327 ± 25.5
Positive Control ⁵				232 ± 41.8	
Positive Control ⁸	98 ± 3.8	87 ± 2.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 2.9
3.3	
10.0	25 ± 3.4
33.0	31 ± 3.3
100.0	27 ± 3.2
333.0	29 ± 3.6
500.0	
1000.0	21 ± 4.7 ^s
2167.0	2 ± 0.7 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	335 ± 27.5
Positive Control ⁸	

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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: 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 **