

Experiment Number: A55337

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

G06: Ames Summary Data

Test Compound: Citronellol

CAS Number: 106-22-9

Date Report Requested: 09/17/2018

Time Report Requested: 08:18:43

NTP Study Number:

A55337

Study Result:

Negative

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

Test Compound: Citronellol

Time Report Requested: 08:18:43

CAS Number: 106-22-9

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 5.7	130 ± 1.3	121 ± 5.5	121 ± 2.9	132 ± 7.9
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	1.0	125 ± 4.6
				3.0	129 ± 3.1
132 ± 3.2	126 ± 1.3	129 ± 0.3	128 ± 6.1	10.0	125 ± 3.3
127 ± 2.0	127 ± 2.2	125 ± 0.7	119 ± 5.0	33.0	119 ± 7.5
124 ± 2.8	125 ± 3.8	127 ± 5.5	107 ± 8.2	100.0	118 ± 5.2
122 ± 2.3	119 ± 4.0	121 ± 4.0	120 ± 5.9	333.0	
97 ± 7.2 ^s	109 ± 0.3 ^s	109 ± 5.4 ^s	94 ± 5.9 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					622 ± 6.0
Positive Control ³			564 ± 18.0		
Positive Control ⁴				621 ± 18.7	
Positive Control ⁵	943 ± 7.0	852 ± 22.7			

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Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	117 ± 6.1
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	
	126 ± 2.7
132 ± 3.2	125 ± 0.3
127 ± 2.0	130 ± 3.8
124 ± 2.8	119 ± 0.0
122 ± 2.3	Toxic
97 ± 7.2 ^s	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	677 ± 27.5
Positive Control ⁴	
Positive Control ⁵	

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Test Compound: Citronellol

CAS Number: 106-22-9

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	9 ± 1.5	12 ± 1.5	15 ± 2.0	18 ± 1.5	12 ± 2.0
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	1.0	11 ± 0.7
				3.0	11 ± 1.5
16 ± 2.0	11 ± 0.7	12 ± 0.3	11 ± 1.3	10.0	17 ± 1.2
13 ± 0.3	13 ± 2.9	14 ± 1.3	13 ± 1.7	33.0	9 ± 1.3
12 ± 0.9	12 ± 1.2	12 ± 1.0	12 ± 1.5	100.0	13 ± 1.7
17 ± 1.3	11 ± 0.7	15 ± 2.3	12 ± 1.5	333.0	
6 ± 1.2 ^s	9 ± 1.2 ^s	8 ± 0.6 ^s	7 ± 0.3 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					147 ± 18.1
Positive Control ⁴			137 ± 10.0		
Positive Control ⁵	846 ± 26.2	894 ± 26.1			
Positive Control ⁶				91 ± 7.4	

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G06: Ames Summary Data

Test Compound: Citronellol

CAS Number: 106-22-9

Date Report Requested: 09/17/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.5
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
	13 ± 3.0
16 ± 2.0	12 ± 0.0
13 ± 0.3	14 ± 0.3
12 ± 0.9	14 ± 2.1
17 ± 1.3	Toxic
6 ± 1.2 ^s	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	115 ± 9.1
Positive Control ⁵	
Positive Control ⁶	

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Test Compound: Citronellol

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CAS Number: 106-22-9

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	117 ± 5.2	141 ± 3.2	161 ± 2.8	156 ± 3.8	172 ± 6.2
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	1.0	123 ± 3.3
				3.0	138 ± 6.4
151 ± 3.3	154 ± 6.7	161 ± 17.4	127 ± 1.0	10.0	125 ± 4.9
170 ± 5.8	144 ± 7.0	158 ± 0.3	150 ± 12.0	33.0	124 ± 4.3
169 ± 10.8	137 ± 5.5	175 ± 0.7	157 ± 9.7	100.0	114 ± 2.9
157 ± 15.2	133 ± 10.8	149 ± 12.7	152 ± 2.0	333.0	
116 ± 7.9 ^s	113 ± 6.2 ^s	100 ± 10.6 ^s	104 ± 4.3 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					712 ± 5.8
Positive Control ³			661 ± 19.3		
Positive Control ⁴				480 ± 32.0	
Positive Control ⁷	635 ± 34.1	579 ± 8.7			

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Test Compound: Citronellol
CAS Number: 106-22-9

Date Report Requested: 09/17/2018
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	135 ± 9.1
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	
	135 ± 3.5
151 ± 3.3	146 ± 2.9
170 ± 5.8	144 ± 6.2
169 ± 10.8	138 ± 5.1
157 ± 15.2	Toxic
116 ± 7.9 ^s	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	552 ± 13.9
Positive Control ⁴	
Positive Control ⁷	

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Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Citronellol

Time Report Requested: 08:18:43

CAS Number: 106-22-9

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 ± 1.8	20 ± 2.0	23 ± 2.3	16 ± 4.3	26 ± 2.9
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	1.0	20 ± 1.9
				3.0	14 ± 2.0
22 ± 3.3	15 ± 1.8	23 ± 3.2	15 ± 3.5	10.0	13 ± 1.9
22 ± 2.5	17 ± 4.8	23 ± 1.9	13 ± 2.1	33.0	12 ± 2.3
25 ± 1.5	16 ± 1.5	23 ± 2.4	16 ± 1.0	100.0	9 ± 1.0
24 ± 2.1	14 ± 0.9	19 ± 1.0	12 ± 0.3	333.0	
15 ± 2.0 ^s	11 ± 0.3 ^s	14 ± 2.2 ^s	8 ± 1.2 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					645 ± 22.5
Positive Control ³			542 ± 29.1		
Positive Control ⁸	434 ± 18.8	355 ± 15.1			
Positive Control ⁴				533 ± 17.4	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.2
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
	18 ± 0.3
22 ± 3.3	14 ± 1.5
22 ± 2.5	13 ± 0.7
25 ± 1.5	15 ± 1.7
24 ± 2.1	Toxic
15 ± 2.0 ^s	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	615 ± 10.0
Positive Control ⁸	
Positive Control ⁴	

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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 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****