

Experiment Number: 526876

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Citral diethyl acetal

CAS Number: 7492-66-2

Date Report Requested: 09/12/2018

Time Report Requested: 18:22:36

**NTP Study Number:**

526876

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	116 ± 9.8	116 ± 7.0	143 ± 15.9	147 ± 18.9	154 ± 12.7
33.0	120 ± 9.6	110 ± 2.0	160 ± 8.6		135 ± 6.7
100.0	99 ± 5.9	128 ± 12.3	138 ± 5.7	143 ± 4.2	141 ± 7.8
333.0	108 ± 5.6	93 ± 6.7	143 ± 11.3	161 ± 11.3	117 ± 4.9
1000.0	99 ± 6.1	27 ± 2.6	129 ± 4.2	121 ± 5.7	134 ± 10.4
1666.0	97 ± 7.1	28 ± 9.9	94 ± 2.1		
3333.0				70 ± 3.7	122 ± 15.4
6666.0				44 ± 18.5 <sup>s</sup>	
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					515 ± 21.3
Positive Control <sup>3</sup>			450 ± 26.3		
Positive Control <sup>4</sup>	470 ± 8.7	343 ± 5.8			
Positive Control <sup>5</sup>				525 ± 18.2	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	122 ± 6.3
33.0	
100.0	106 ± 2.0
333.0	123 ± 0.9
1000.0	139 ± 7.4
1666.0	
3333.0	109 ± 5.9
6666.0	
10000.0	3 ± 0.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	702 ± 21.1
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	16 ± 3.1	9 ± 1.5	10 ± 2.0	13 ± 1.8	7 ± 1.0
33.0	15 ± 1.5	13 ± 1.5	9 ± 1.5	14 ± 0.3	9 ± 3.2
100.0	13 ± 0.9	11 ± 1.5	9 ± 1.2	10 ± 3.5	9 ± 2.9
333.0	15 ± 1.5	12 ± 1.2	7 ± 1.5	8 ± 0.7	7 ± 1.5
1000.0	14 ± 0.7	11 ± 1.9	8 ± 1.5	7 ± 1.2	5 ± 0.7
1666.0	16 ± 0.9	7 ± 1.9	7 ± 1.5		
3333.0				6 ± 1.8	8 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>	335 ± 8.9	450 ± 30.3			
Positive Control <sup>3</sup>					156 ± 11.1
Positive Control <sup>5</sup>			76 ± 5.5		
Positive Control <sup>6</sup>				107 ± 9.8	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 2.6
33.0	8 ± 1.5
100.0	7 ± 1.2
333.0	11 ± 2.1
1000.0	13 ± 4.8
1666.0	
3333.0	11 ± 0.9
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	554 ± 23.8
Positive Control <sup>6</sup>	

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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 <sup>1</sup>	162 ± 12.6	161 ± 9.3	184 ± 6.4	214 ± 4.1	155 ± 13.9
33.0	163 ± 5.2	192 ± 20.1	198 ± 9.0	216 ± 9.8	173 ± 4.7
100.0	167 ± 4.3	163 ± 17.1	193 ± 13.0	218 ± 4.7	191 ± 16.7
333.0	182 ± 7.4	184 ± 20.5	180 ± 17.7	214 ± 9.6	181 ± 8.7
1000.0	189 ± 6.7	188 ± 8.2	212 ± 4.0	198 ± 23.0	172 ± 11.2
1666.0	198 ± 14.7	193 ± 8.0	169 ± 11.5		
3333.0				Toxic	169 ± 15.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					452 ± 23.7
Positive Control <sup>3</sup>			335 ± 13.0		
Positive Control <sup>5</sup>				397 ± 25.1	
Positive Control <sup>7</sup>	454 ± 2.5	338 ± 15.2			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	163 ± 23.8
33.0	197 ± 0.7
100.0	193 ± 4.0
333.0	181 ± 10.1
1000.0	183 ± 2.9
1666.0	
3333.0	123 ± 10.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	467 ± 4.6
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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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 <sup>1</sup>	18 ± 2.5	19 ± 2.9	37 ± 3.1	23 ± 3.3	26 ± 0.6
33.0	16 ± 0.3	23 ± 3.6	31 ± 1.5		25 ± 0.9
100.0	16 ± 0.9	19 ± 3.5	34 ± 4.2	20 ± 1.9	18 ± 1.9
333.0	15 ± 1.2	18 ± 2.0	31 ± 2.1	19 ± 0.9	21 ± 2.8
1000.0	17 ± 0.7	9 ± 3.1	32 ± 0.6	16 ± 2.7	18 ± 4.1
1666.0	13 ± 3.8	5 ± 2.0	33 ± 3.3		
3333.0				10 ± 2.0	15 ± 2.6
6666.0				7 ± 1.2	
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					553 ± 27.9
Positive Control <sup>3</sup>			290 ± 9.2	131 ± 1.5	
Positive Control <sup>8</sup>	361 ± 19.7	366 ± 26.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	31 ± 3.7
33.0	
100.0	20 ± 0.9
333.0	30 ± 2.4
1000.0	32 ± 5.5
1666.0	
3333.0	24 ± 4.5
6666.0	
10000.0	1 ± 1.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	351 ± 14.8
Positive Control <sup>8</sup>	

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**LEGEND**

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 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 \*\***