

Experiment Number: 856528

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

G06: Ames Summary Data

Test Compound: **Citral diethyl acetal**

CAS Number: **7492-66-2**

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

Time Report Requested: **12:51:17**

NTP Study Number:

856528

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	139 ± 6.4	110 ± 2.9	104 ± 8.0	96 ± 13.7	98 ± 7.1
33.0	129 ± 13.2	106 ± 5.4	108 ± 6.7		
100.0	129 ± 6.7	111 ± 7.8	114 ± 4.0	111 ± 14.0	105 ± 4.7
333.0	127 ± 1.5	106 ± 1.0	105 ± 2.5	134 ± 8.2	106 ± 8.4
1000.0	131 ± 1.3	120 ± 1.8	131 ± 3.8	126 ± 3.8	140 ± 2.3
3333.0	173 ± 3.8	155 ± 8.5	152 ± 5.4 ^s	164 ± 1.2	164 ± 3.8
4000.0					
6666.0				129 ± 4.0 ^s	133 ± 6.7 ^s
Trial Summary	Equivocal	Equivocal	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³				890 ± 7.4	888 ± 15.9
Positive Control ⁴	1036 ± 40.5	1326 ± 16.7	1653 ± 51.7		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	85 ± 6.3	118 ± 14.7	91 ± 5.7	98 ± 4.6
33.0				
100.0	121 ± 7.0	114 ± 6.8	106 ± 3.7	99 ± 2.9
333.0	112 ± 10.4	138 ± 3.0	110 ± 7.4	107 ± 6.7
1000.0	137 ± 9.0	143 ± 3.2	126 ± 5.9	118 ± 6.6
3333.0	140 ± 7.7 ^s	149 ± 1.2	144 ± 3.7	147 ± 11.6 ^s
4000.0	153 ± 3.2 ^s			126 ± 10.5 ^s
6666.0		128 ± 6.4 ^s	Toxic	
Trial Summary	Weakly Positive	Equivocal	Weakly Positive	Equivocal
Positive Control ²		833 ± 28.5	480 ± 23.1	1280 ± 113.0
Positive Control ³	1515 ± 51.0			
Positive Control ⁴				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	37 ± 3.5	36 ± 3.9	11 ± 0.9	17 ± 2.6	14 ± 2.2
33.0	33 ± 3.5	38 ± 1.9			
100.0	32 ± 6.5	44 ± 5.7	15 ± 3.2	19 ± 3.6	12 ± 0.7
333.0	34 ± 4.4	43 ± 1.9	18 ± 2.3	18 ± 3.8	18 ± 1.7
1000.0	42 ± 3.2	48 ± 0.3	27 ± 3.5	27 ± 1.0	30 ± 1.2
3333.0	47 ± 1.9	54 ± 7.2 ^s	40 ± 3.4	49 ± 7.2 ^s	42 ± 3.2
4000.0				52 ± 2.5 ^s	
6666.0			Toxic		40 ± 5.8 ^s
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control ²					70 ± 2.2
Positive Control ³			103 ± 13.6	141 ± 3.0	
Positive Control ⁴	1127 ± 4.4	1308 ± 31.6			
Positive Control ⁵					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.9
33.0	
100.0	20 ± 1.2
333.0	26 ± 3.2
1000.0	27 ± 1.5
3333.0	57 ± 5.2 ^s
4000.0	62 ± 3.7 ^s
6666.0	
Trial Summary	Positive
Positive Control ²	131 ± 4.1
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 7.7	142 ± 5.5	149 ± 16.3
33.0	112 ± 3.5		
100.0	99 ± 5.8	149 ± 3.8	137 ± 4.3
333.0	109 ± 10.4	145 ± 7.9	127 ± 7.5
1000.0	108 ± 6.5	150 ± 6.4	126 ± 4.0
3333.0	115 ± 6.9	140 ± 3.2	120 ± 3.7
6666.0		Toxic	109 ± 8.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			372 ± 25.9
Positive Control ³		575 ± 29.8	
Positive Control ⁵	1083 ± 20.4		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.4	21 ± 1.0	25 ± 2.2	35 ± 1.3	25 ± 2.2
33.0	12 ± 1.9	19 ± 1.5			
100.0	17 ± 2.3	21 ± 1.8	23 ± 2.0	38 ± 4.4	24 ± 4.1
333.0	16 ± 1.7	21 ± 2.3	29 ± 0.9	38 ± 5.8	29 ± 0.0
1000.0	12 ± 3.0	17 ± 0.0	24 ± 2.1	36 ± 2.2	27 ± 3.5
3333.0	16 ± 1.5	23 ± 2.3	28 ± 4.4	33 ± 1.8	20 ± 4.2
6666.0			16 ± 1.9 ^s	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					826 ± 30.7
Positive Control ³			936 ± 18.4	853 ± 24.1	
Positive Control ⁶	1272 ± 37.8	1398 ± 23.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.5
33.0	
100.0	35 ± 6.1
333.0	34 ± 1.3
1000.0	36 ± 5.2
3333.0	31 ± 4.9
6666.0	Toxic
Trial Summary	Negative
Positive Control ²	474 ± 11.3
Positive Control ³	
Positive Control 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

1: Vehicle Control: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****