

Experiment Number: 169798

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: D-Limonene dimercaptan

CAS Number: 4802-20-4

Date Report Requested: 09/13/2018

Time Report Requested: 03:03:39

NTP Study Number:

169798

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	101 ± 13.2	101 ± 4.3	128 ± 9.8	133 ± 15.8	135 ± 8.3
0.33		111 ± 0.0		149 ± 2.2	
1.0	99 ± 8.6	89 ± 4.9	112 ± 28.5	118 ± 2.1	156 ± 7.1
3.3	91 ± 3.4	98 ± 3.4	123 ± 3.5	140 ± 5.9	134 ± 5.0
10.0	91 ± 1.5	93 ± 8.9	123 ± 4.9	150 ± 11.2	143 ± 4.9
33.0	80 ± 13.0	86 ± 3.5	150 ± 11.3	161 ± 4.7	134 ± 10.5
100.0	Toxic		150 ± 15.9		151 ± 0.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			410 ± 94.5	460 ± 108.3	550 ± 7.9
Positive Control ³	346 ± 21.5	363 ± 18.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	144 ± 6.6
0.33	143 ± 9.8
1.0	142 ± 12.9
3.3	144 ± 7.8
10.0	151 ± 9.3
33.0	145 ± 2.8
100.0	
Trial Summary	Negative
Positive Control ²	643 ± 60.0
Positive Control ³	

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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	5 ± 1.0	5 ± 0.6	7 ± 0.9	9 ± 1.5	8 ± 0.0
0.33		8 ± 0.9		13 ± 1.2	
1.0	6 ± 1.0	7 ± 1.5	6 ± 0.9	9 ± 1.2	6 ± 0.9
3.3	5 ± 0.6	8 ± 1.0	7 ± 0.3	9 ± 1.2	10 ± 3.7
10.0	7 ± 1.2	8 ± 0.7	6 ± 0.7	8 ± 0.6	7 ± 1.5
33.0	6 ± 0.0	4 ± 1.2	10 ± 1.2	12 ± 1.5	6 ± 1.3
100.0	Toxic		6 ± 0.6		11 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			30 ± 6.4	19 ± 4.4	65 ± 9.0
Positive Control ³	493 ± 43.2	272 ± 17.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.7
0.33	8 ± 0.6
1.0	8 ± 3.0
3.3	7 ± 1.5
10.0	7 ± 2.3
33.0	8 ± 1.7
100.0	
Trial Summary	Negative
Positive Control ²	32 ± 5.7
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.6	4 ± 1.5	6 ± 1.8	5 ± 1.0	48 ± 40.8
0.33		5 ± 1.9		4 ± 0.3	
1.0	6 ± 1.5	4 ± 1.5	4 ± 0.6	3 ± 0.9	7 ± 1.7
3.3	5 ± 1.0	2 ± 0.7	5 ± 2.4	5 ± 0.9	5 ± 1.5
10.0	3 ± 1.8	5 ± 1.3	4 ± 1.9	4 ± 1.0	5 ± 2.3
33.0	5 ± 1.8	2 ± 0.7	5 ± 0.6	4 ± 0.3	5 ± 1.2
100.0	Toxic		2 ± 0.3		4 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			22 ± 1.5	34 ± 9.1	25 ± 4.9
Positive Control ⁴	135 ± 11.9	114 ± 26.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 2.0
0.33	4 ± 0.5
1.0	8 ± 3.0
3.3	4 ± 0.3
10.0	6 ± 2.5
33.0	6 ± 0.9
100.0	
Trial Summary	Negative
Positive Control ²	45 ± 10.4
Positive Control 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 ± 1.8	13 ± 1.9	17 ± 1.8	19 ± 3.4	17 ± 2.6
0.33		13 ± 1.9		21 ± 4.4	
1.0	12 ± 3.0	12 ± 1.3	24 ± 5.2	21 ± 3.0	25 ± 2.0
3.3	19 ± 0.5	11 ± 2.3	24 ± 3.6	19 ± 3.9	19 ± 0.6
10.0	13 ± 3.3	8 ± 1.7	26 ± 1.9	26 ± 2.3	30 ± 2.5
33.0	12 ± 0.7	9 ± 0.3	21 ± 2.1	21 ± 2.0	29 ± 5.0
100.0	Toxic		20 ± 4.4		32 ± 3.9
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			627 ± 79.4	339 ± 24.9	592 ± 49.6
Positive Control ⁵	223 ± 14.4	121 ± 17.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.8
0.33	22 ± 2.5
1.0	21 ± 4.7
3.3	21 ± 1.2
10.0	25 ± 5.7
33.0	28 ± 4.4
100.0	
Trial Summary	Negative
Positive Control ²	435 ± 6.0
Positive Control ⁵	

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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: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****