

Experiment Number: 765798

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: D-Limonene dimercaptan

CAS Number: 4802-20-4

Date Report Requested: 09/17/2018

Time Report Requested: 20:11:08

NTP Study Number:

765798

Study Result:

Negative

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Test Compound: D-Limonene dimercaptan
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Date Report Requested: 09/17/2018

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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	100 ± 7.0	110 ± 15.9	93 ± 3.8	102 ± 6.1	93 ± 5.5
0.3	104 ± 4.4	107 ± 11.7			
1.0	106 ± 12.7	105 ± 5.5			
3.3	91 ± 9.5	96 ± 6.2	93 ± 7.4	121 ± 4.3	119 ± 5.5
10.0	87 ± 7.0	101 ± 8.5	102 ± 5.9	122 ± 9.5	114 ± 4.9
33.3	93 ± 6.2	101 ± 1.9	100 ± 2.6	141 ± 12.4	108 ± 7.2
100.0			99 ± 6.4	117 ± 8.8	127 ± 8.1
333.3			75 ± 1.9 ^s	117 ± 7.2	95 ± 4.8 ^s
1000.0					
3333.3					
10000.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²			508 ± 25.7	878 ± 34.5	1469 ± 135.5
Positive Control ³	471 ± 3.3	412 ± 15.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	101 ± 1.3
0.3	
1.0	
3.3	109 ± 2.0
10.0	92 ± 6.8
33.3	94 ± 5.6
100.0	92 ± 5.2
333.3	69 ± 3.5 ^s
1000.0	
3333.3	
10000.0	
Trial Summary	Negative
Positive Control ²	1446 ± 65.9
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	14 ± 0.3	16 ± 2.3	17 ± 0.9	18 ± 3.8	12 ± 3.8
0.3	17 ± 4.4	17 ± 3.3			
1.0	17 ± 1.2	22 ± 3.0			
3.3	19 ± 4.7	21 ± 1.8	9 ± 1.8	17 ± 1.9	12 ± 1.7
10.0	18 ± 0.9	18 ± 1.5	11 ± 2.0	26 ± 2.6	11 ± 1.3
33.3	10 ± 3.0 ^s	22 ± 2.2 ^s	10 ± 1.3	23 ± 2.0	10 ± 2.2
100.0			9 ± 2.8	13 ± 1.7	11 ± 1.8
333.3			3 ± 1.3 ^s	11 ± 1.7	4 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	361 ± 11.3	331 ± 21.5			
Positive Control ⁴			366 ± 7.2	376 ± 20.0	284 ± 30.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.7
0.3	
1.0	
3.3	13 ± 1.5
10.0	10 ± 0.0
33.3	11 ± 1.0
100.0	6 ± 1.2
333.3	4 ± 0.3 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	440 ± 31.9

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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	8 ± 0.7	10 ± 2.4	14 ± 2.3	14 ± 5.0	19 ± 3.2
0.3	7 ± 1.2	8 ± 0.7			
1.0	10 ± 2.3	9 ± 3.1			
3.3	9 ± 0.3	9 ± 2.2	10 ± 1.7	21 ± 1.5	19 ± 2.3
10.0	7 ± 1.5	4 ± 0.3	12 ± 2.3	15 ± 3.4	21 ± 3.5
33.3	8 ± 2.4 ^s	7 ± 2.7	11 ± 2.9	19 ± 1.0	21 ± 2.6
100.0			12 ± 0.3	20 ± 1.9	16 ± 0.9
333.3			11 ± 1.7 ^s	12 ± 0.7	11 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			345 ± 6.9	418 ± 19.9	555 ± 30.1
Positive Control ⁵	87 ± 18.2	134 ± 25.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.0
0.3	
1.0	
3.3	14 ± 1.5
10.0	15 ± 2.2
33.3	15 ± 1.2
100.0	15 ± 0.7
333.3	13 ± 2.6 ^s
Trial Summary	Negative
Positive Control ⁴	497 ± 17.4
Positive Control ⁵	

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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	22 ± 3.8	16 ± 0.3	23 ± 2.1	49 ± 2.4	35 ± 4.3
0.3	21 ± 0.3	20 ± 4.4			
1.0	21 ± 5.7	23 ± 3.4			
3.3	20 ± 1.3	18 ± 0.9	26 ± 3.8	43 ± 1.5	29 ± 3.9
10.0	15 ± 0.9	19 ± 4.0	28 ± 1.0	45 ± 4.5	39 ± 1.5
33.3	19 ± 1.5	16 ± 0.9	33 ± 3.8	47 ± 4.3	33 ± 3.3
100.0			31 ± 5.0	31 ± 0.6	40 ± 2.7
333.3			35 ± 3.7 ^s	33 ± 4.1	31 ± 6.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			259 ± 7.0	435 ± 4.9	1177 ± 183.9
Positive Control ⁶	855 ± 43.6	777 ± 28.8			

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Test Compound: D-Limonene dimercaptan
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Date Report Requested: 09/17/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 3.8
0.3	
1.0	
3.3	23 ± 4.6
10.0	30 ± 0.3
33.3	27 ± 1.7
100.0	35 ± 5.5
333.3	32 ± 2.7
Trial Summary	Negative
Positive Control ²	1537 ± 9.3
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****