

Experiment Number: 919523

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Dodecylmercaptan

CAS Number: 112-55-0

Date Report Requested: 09/17/2018

Time Report Requested: 06:32:18

NTP Study Number:

919523

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	130 ± 6.6	155 ± 3.8	90 ± 5.5	120 ± 7.3	83 ± 2.9
0.01	131 ± 9.7	Toxic			
0.03	131 ± 6.5	132 ± 8.2			
0.1	131 ± 5.0	130 ± 10.1			
0.3	110 ± 11.7	120 ± 11.9			
1.0	95 ± 3.0 ^s	120 ± 10.1 ^s			
100.0			82 ± 4.3	118 ± 0.7	96 ± 4.3
333.0			105 ± 7.0	113 ± 11.9	94 ± 6.2
1000.0			99 ± 5.6	75 ± 4.5	89 ± 6.5
3333.0			88 ± 4.4	52 ± 10.5	84 ± 3.5
10000.0			80 ± 3.9	26 ± 3.7	79 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					912 ± 12.1
Positive Control ³			1164 ± 17.8	2226 ± 35.0	
Positive Control ⁴	1477 ± 76.4	1341 ± 33.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	115 ± 7.0
0.01	
0.03	
0.1	
0.3	
1.0	
100.0	97 ± 3.5
333.0	118 ± 7.8
1000.0	106 ± 9.3
3333.0	101 ± 6.0
10000.0	81 ± 6.6
Trial Summary	Negative
Positive Control ²	1873 ± 33.2
Positive Control ³	
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	22 ± 3.2	23 ± 1.5	8 ± 1.5	7 ± 0.6	6 ± 2.3
0.01	26 ± 3.2	32 ± 4.0			
0.03	23 ± 2.0	28 ± 6.5			
0.1	25 ± 5.4	26 ± 2.8			
0.3	24 ± 1.5	23 ± 3.8			
1.0	20 ± 1.5 ^s	20 ± 2.7 ^s			
100.0			10 ± 2.2	10 ± 1.5	9 ± 2.0
333.0			10 ± 1.9	11 ± 2.0	6 ± 2.2
1000.0			5 ± 1.2	10 ± 0.9	8 ± 0.9
3333.0			10 ± 3.2	9 ± 1.0	7 ± 1.5
10000.0			6 ± 0.7	5 ± 0.7	7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					102 ± 10.9
Positive Control ³			113 ± 5.2	198 ± 10.3	
Positive Control ⁴	1045 ± 20.3	1047 ± 24.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.2
0.01	
0.03	
0.1	
0.3	
1.0	
100.0	11 ± 2.6
333.0	10 ± 3.3
1000.0	9 ± 0.9
3333.0	7 ± 0.3
10000.0	2 ± 0.3
Trial Summary	Negative
Positive Control ²	143 ± 13.1
Positive Control ³	
Positive Control ⁴	

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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	5 ± 0.7	7 ± 1.8	6 ± 1.5	6 ± 2.2	7 ± 0.7
0.01	7 ± 3.0				
0.03	5 ± 1.5	8 ± 1.9			
0.1	9 ± 3.8	9 ± 2.4			
0.3	8 ± 1.7	6 ± 1.3			
1.0	4 ± 1.3	4 ± 0.7 ^s			
3.3		4 ± 0.6 ^s			
100.0			6 ± 0.6	11 ± 1.5	7 ± 2.0
333.0			5 ± 0.3	4 ± 1.2	4 ± 1.3
1000.0			3 ± 0.3	3 ± 0.9	9 ± 0.7
3333.0			4 ± 1.0	3 ± 1.0	5 ± 0.9
10000.0			3 ± 1.5	1 ± 0.3	4 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					83 ± 12.2
Positive Control ³			111 ± 12.4	238 ± 18.8	
Positive Control ⁵	670 ± 29.8	850 ± 102.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.3
0.01	
0.03	
0.1	
0.3	
1.0	
3.3	
100.0	6 ± 1.5
333.0	6 ± 1.2
1000.0	4 ± 1.5
3333.0	5 ± 1.5
10000.0	3 ± 0.6
Trial Summary	Negative
Positive Control ²	177 ± 6.9
Positive Control ³	
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	20 ± 1.3	14 ± 0.6	30 ± 4.1	25 ± 2.8	22 ± 3.2
0.01	15 ± 0.9				
0.03	15 ± 2.1	19 ± 2.1			
0.1	13 ± 1.0	18 ± 0.9			
0.3	13 ± 2.5	18 ± 1.5			
1.0	14 ± 3.2	19 ± 1.5			
3.3		16 ± 1.2			
100.0			27 ± 2.7	28 ± 2.1	30 ± 2.6
333.0			32 ± 0.9	28 ± 4.0	29 ± 7.6
1000.0			23 ± 3.8	24 ± 2.4	23 ± 3.6
3333.0			25 ± 2.9	26 ± 4.5	25 ± 0.9
10000.0			22 ± 1.7	27 ± 1.5	29 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					505 ± 27.4
Positive Control ³			660 ± 22.8	1621 ± 38.9	
Positive Control ⁶	1372 ± 119.6	1159 ± 34.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	38 ± 2.7
0.01	
0.03	
0.1	
0.3	
1.0	
3.3	
100.0	34 ± 2.6
333.0	26 ± 4.9
1000.0	30 ± 2.3
3333.0	32 ± 5.6
10000.0	27 ± 1.7
Trial Summary	Negative
Positive Control ²	1392 ± 59.4
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: Acetone

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****