

Experiment Number: 390409

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

G06: Ames Summary Data

Test Compound: **Dimethyldisulfide**

CAS Number: **624-92-0**

Date Report Requested: **09/14/2018**

Time Report Requested: **10:07:24**

NTP Study Number:

390409

Study Result:

Negative

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Test Compound: Dimethyldisulfide

CAS Number: 624-92-0

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	121 ± 7.3	86 ± 3.0	122 ± 8.8	165 ± 4.9	131 ± 9.2
10.0		101 ± 3.8			
33.0	112 ± 11.0	104 ± 0.3	131 ± 8.6	168 ± 9.3	
100.0	106 ± 3.0	110 ± 13.7	125 ± 3.8	182 ± 4.4	135 ± 6.1
333.0	117 ± 14.6	110 ± 10.4	133 ± 8.2	181 ± 14.2	142 ± 7.1
1000.0	113 ± 10.7	99 ± 1.5	114 ± 9.5	149 ± 4.4	135 ± 10.8
3333.0	Toxic		29 ± 15.6 ^s	179 ± 3.8	75 ± 0.9 ^s
10000.0					12 ± 12.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	341 ± 17.9	447 ± 1.7			
Positive Control ⁴			686 ± 22.7		
Positive Control ⁵					
Positive Control ⁶				566 ± 22.5	789 ± 10.2

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	132 ± 5.0	168 ± 18.3
10.0		
33.0	110 ± 6.2	152 ± 11.3
100.0	132 ± 4.9	146 ± 4.4
333.0	120 ± 9.0	134 ± 19.1
1000.0	105 ± 9.8	166 ± 2.8
3333.0	35 ± 17.4 ^s	20 ± 14.2 ^s
10000.0		
Trial Summary	Negative	Negative
Positive Control ²	329 ± 7.9	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		586 ± 11.9
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	5 ± 0.9	8 ± 1.9	7 ± 0.9	11 ± 2.1	10 ± 1.2
10.0		10 ± 1.2			
33.0	7 ± 2.2	9 ± 1.8	11 ± 2.4		11 ± 1.7
100.0	7 ± 1.5	5 ± 0.9	13 ± 1.5	11 ± 1.5	12 ± 2.2
333.0	7 ± 1.2	10 ± 2.8	8 ± 0.3	11 ± 0.9	12 ± 1.5
1000.0	9 ± 2.9	11 ± 2.4	8 ± 1.3	11 ± 1.2	10 ± 0.7
3333.0	1 ± 0.5 ^s		7 ± 0.6 ^s	5 ± 1.7 ^s	7 ± 1.2 ^s
10000.0				0 ± 0.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	121 ± 8.2	287 ± 12.4			
Positive Control ⁵					
Positive Control ⁶			96 ± 5.2	70 ± 2.8	90 ± 3.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.2	11 ± 0.9
10.0		
33.0	11 ± 2.9	9 ± 2.3
100.0	11 ± 0.3	8 ± 1.7
333.0	11 ± 1.5	8 ± 1.3
1000.0	7 ± 3.3	7 ± 1.0
3333.0	1 ± 1.3 ^s	2 ± 0.6 ^s
10000.0		
Trial Summary	Negative	Negative
Positive Control ²	31 ± 5.0	
Positive Control ³		
Positive Control ⁵		57 ± 3.2
Positive Control ⁶		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	199 ± 6.9	137 ± 9.8	128 ± 8.4	152 ± 5.8	179 ± 7.3
10.0		122 ± 7.8			
33.0	182 ± 8.6	109 ± 5.7	119 ± 9.8		176 ± 8.9
100.0	181 ± 5.3	120 ± 6.9	124 ± 1.3	154 ± 3.3	164 ± 3.5
333.0	206 ± 6.0	135 ± 2.0	128 ± 3.7	172 ± 11.1	181 ± 7.9
1000.0	181 ± 6.2	102 ± 3.0	101 ± 3.2	163 ± 12.2	158 ± 5.7
3333.0	5 ± 3.3 ^s		34 ± 15.5 ^s	76 ± 2.7 ^s	39 ± 21.2 ^s
10000.0				2 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			982 ± 22.0	625 ± 18.4	531 ± 1.5
Positive Control ⁷	411 ± 22.2	330 ± 17.3			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	119 ± 12.3	127 ± 11.1
10.0		
33.0	121 ± 8.1	140 ± 4.4
100.0	130 ± 3.5	135 ± 5.3
333.0	127 ± 5.2	131 ± 2.9
1000.0	117 ± 6.1	119 ± 10.4
3333.0	0 ± 0.0 ^s	37 ± 8.7 ^s
10000.0		
Trial Summary	Negative	Negative
Positive Control ⁴	787 ± 26.5	
Positive Control ⁶		780 ± 42.5
Positive Control ⁷		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	15 ± 1.5	15 ± 1.0	14 ± 0.9	21 ± 2.6	26 ± 2.5
10.0			9 ± 4.3		
33.0	12 ± 1.5	18 ± 1.2	18 ± 3.2	19 ± 0.9	24 ± 2.4
100.0	13 ± 0.9	14 ± 1.9	11 ± 1.2	21 ± 3.5	21 ± 1.2
333.0	11 ± 1.2	14 ± 2.0	12 ± 1.8	19 ± 2.8	28 ± 3.0
1000.0	13 ± 1.8	15 ± 1.5	12 ± 3.2	19 ± 2.4	26 ± 3.0
3333.0	1 ± 1.3 ^s	0 ± 0.3 ^s		3 ± 3.3 ^s	10 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				198 ± 3.6	
Positive Control ⁵					244 ± 16.1
Positive Control ⁸	275 ± 7.0	236 ± 13.1	243 ± 4.4		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 4.1	19 ± 1.7
10.0		
33.0	15 ± 2.1	18 ± 2.3
100.0	17 ± 2.0	24 ± 2.7
333.0	17 ± 1.0	20 ± 1.0
1000.0	12 ± 3.5	20 ± 3.8
3333.0	1 ± 0.9 ^s	5 ± 2.3 ^s
Trial Summary	Negative	Negative
Positive Control ²	329 ± 8.1	
Positive Control ⁵		586 ± 30.7
Positive Control ⁸		

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****