

Experiment Number: 499979

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethyloldihydroxyethyleneurea

CAS Number: 1854-26-8

Date Report Requested: 09/12/2018

Time Report Requested: 04:58:16

NTP Study Number:

499979

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% Rat S9
Vehicle Control ¹	97 ± 1.7	94 ± 7.6	147 ± 11.2	127 ± 8.0	127 ± 5.3
100.0	97 ± 5.6	84 ± 1.0	158 ± 12.3	105 ± 6.8	113 ± 9.0
333.0	99 ± 10.5	85 ± 3.1	146 ± 15.0	117 ± 4.8	120 ± 9.6
667.0					
1000.0	91 ± 9.2	89 ± 8.2	167 ± 10.5	130 ± 7.3	110 ± 6.4
1667.0					
3333.0	122 ± 7.3	93 ± 4.8	200 ± 5.9	121 ± 5.8	116 ± 10.4
6667.0					
10000.0	79 ± 27.1	95 ± 1.5	199 ± 4.9	127 ± 5.2	132 ± 5.5
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			2252 ± 102.3	922 ± 77.4	1634 ± 145.1
Positive Control ³	1401 ± 23.5	1244 ± 13.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	191 ± 6.7	170 ± 3.7	123 ± 3.1	150 ± 10.0
100.0	153 ± 13.0	136 ± 2.9	131 ± 3.8	
333.0	150 ± 7.1	145 ± 7.6	128 ± 2.5	
667.0				152 ± 4.3
1000.0	120 ± 6.7	148 ± 12.5	120 ± 11.3	161 ± 6.2
1667.0				163 ± 1.7
3333.0	196 ± 13.6	172 ± 7.4	123 ± 1.7	169 ± 10.2
6667.0				196 ± 11.3
10000.0	223 ± 2.4	158 ± 13.4	182 ± 4.6	222 ± 7.4
Trial Summary	Negative	Negative	Equivocal	Equivocal
Positive Control ²	1832 ± 92.9	1583 ± 101.6	1550 ± 28.0	1718 ± 24.3
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 33.0	9 ± 2.0	6 ± 2.3	8 ± 0.9	7 ± 1.7	10 ± 2.0
100.0	9 ± 2.6	5 ± 0.9	7 ± 1.5	7 ± 0.6	11 ± 1.9
333.0	8 ± 0.9	5 ± 1.7	5 ± 1.3	5 ± 0.9	11 ± 2.0
1000.0	5 ± 1.8	7 ± 2.2	8 ± 2.5	3 ± 0.3	12 ± 3.5
3333.0	6 ± 0.9	3 ± 0.7	7 ± 1.8	6 ± 1.7	10 ± 1.5
10000.0	4 ± 1.2	1 ± 0.3	Toxic	1 ± 0.5	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			239 ± 8.7	123 ± 3.7	549 ± 85.2
Positive Control ³	935 ± 131.1	107 ± 24.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.0	10 ± 2.0
33.0		9 ± 1.3
100.0	30 ± 0.9	12 ± 3.0
333.0	30 ± 0.9	8 ± 1.7
1000.0	27 ± 0.9	8 ± 0.6
3333.0	22 ± 2.5	12 ± 1.0
10000.0	12 ± 2.0	
Trial Summary	Negative	Negative
Positive Control ⁴	129 ± 15.8	371 ± 36.1
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 ± 0.3	9 ± 1.9	8 ± 1.3	10 ± 1.0	11 ± 2.3
33.0		9 ± 0.9		12 ± 3.1	
100.0	5 ± 1.5	7 ± 1.0	8 ± 1.9	10 ± 0.3	5 ± 1.7
333.0	4 ± 0.7	4 ± 0.7	10 ± 2.5	9 ± 2.5	8 ± 0.7
1000.0	4 ± 1.5	6 ± 1.0	9 ± 4.5	7 ± 0.9	7 ± 1.8
3333.0	3 ± 0.9	7 ± 1.2	10 ± 0.3	8 ± 0.7	6 ± 1.9
10000.0	0 ± 0.0		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			119 ± 30.3	284 ± 27.0	259 ± 37.8
Positive Control ⁵	698 ± 264.4	904 ± 145.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 3.8
33.0	10 ± 2.7
100.0	7 ± 0.3
333.0	5 ± 0.6
1000.0	9 ± 3.2
3333.0	10 ± 1.8
10000.0	
Trial Summary	Negative
Positive Control ⁴	164 ± 13.6
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	13 ± 2.4	15 ± 2.0	29 ± 4.3	19 ± 0.9	37 ± 6.4
100.0	14 ± 2.3	11 ± 2.0	33 ± 2.6	19 ± 4.9	28 ± 1.3
333.0	18 ± 1.0	20 ± 1.7	32 ± 6.1	23 ± 2.1	57 ± 3.8
1000.0	15 ± 1.8	18 ± 1.9	33 ± 0.6	22 ± 1.5	54 ± 2.6
3333.0	16 ± 2.0	17 ± 2.0	36 ± 3.8	19 ± 1.2	66 ± 7.2
10000.0	15 ± 1.2	Toxic	33 ± 2.1	27 ± 1.3	62 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control ²			1408 ± 29.8	560 ± 47.0	857 ± 3.5
Positive Control ⁶	169 ± 13.9	166 ± 21.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.2	23 ± 1.5
100.0	18 ± 2.4	19 ± 1.2
333.0	29 ± 2.4	18 ± 1.3
1000.0	34 ± 2.4	21 ± 2.3
3333.0	29 ± 0.7	22 ± 4.1
10000.0	25 ± 4.3	19 ± 2.1
Trial Summary	Negative	Negative
Positive Control ²	1310 ± 172.9	784 ± 93.0
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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****