

Experiment Number: 102209

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dimethyldihydroxyethyleneurea

CAS Number: 1854-26-8

Date Report Requested: 09/11/2018

Time Report Requested: 13:44:26

**NTP Study Number:**

102209

**Study Result:**

Positive

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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 <sup>1</sup>	158 ± 3.7	156 ± 10.7	159 ± 16.2	123 ± 12.2	132 ± 2.6
333.0	150 ± 1.5	173 ± 6.9	138 ± 13.6	123 ± 10.2	134 ± 6.7
1000.0	172 ± 11.9	182 ± 1.8	153 ± 9.4	146 ± 3.2	130 ± 5.1
3333.0	195 ± 2.0	207 ± 9.4	243 ± 3.3	271 ± 25.9	180 ± 13.5
6667.0	192 ± 7.6	205 ± 6.8 <sup>s</sup>	323 ± 35.0	407 ± 10.3	271 ± 24.8
10000.0	127 ± 3.6 <sup>s</sup>	157 ± 3.5 <sup>s</sup>	339 ± 16.3	372 ± 33.8 <sup>s</sup>	313 ± 19.7
Trial Summary	Negative	Equivocal	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>					907 ± 34.0
Positive Control <sup>3</sup>			871 ± 31.3	911 ± 23.1	
Positive Control <sup>4</sup>	1273 ± 55.6	957 ± 51.4			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	133 ± 4.2
333.0	136 ± 3.3
1000.0	147 ± 2.7
3333.0	243 ± 13.3
6667.0	392 ± 12.9
10000.0	425 ± 30.0 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	982 ± 45.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 5.5	9 ± 1.7	11 ± 1.2
333.0	23 ± 1.2	8 ± 2.7	11 ± 2.6
1000.0	23 ± 2.6	13 ± 1.2	8 ± 2.6
3333.0	20 ± 2.3	11 ± 0.3	11 ± 1.5
6667.0	16 ± 2.7	8 ± 1.2	11 ± 0.7
10000.0	5 ± 2.0 <sup>s</sup>	8 ± 1.5	10 ± 2.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			106 ± 6.7
Positive Control <sup>3</sup>		101 ± 8.0	
Positive Control <sup>4</sup>	1074 ± 61.3		

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.7	11 ± 0.9	10 ± 1.5
333.0	8 ± 1.5	6 ± 0.3	8 ± 0.3
1000.0	8 ± 1.3	8 ± 1.5	8 ± 1.0
3333.0	5 ± 0.9	10 ± 3.1	10 ± 0.3
6667.0	7 ± 0.6	13 ± 0.3	11 ± 2.0
10000.0	2 ± 0.3 <sup>s</sup>	10 ± 1.5	9 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			74 ± 2.6
Positive Control <sup>3</sup>		66 ± 7.1	
Positive Control <sup>5</sup>	352 ± 48.8		

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Test Compound: Dimethyloldihydroxyethyleneurea  
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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 <sup>1</sup>	29 ± 3.0	18 ± 3.2	32 ± 2.7	30 ± 3.0	33 ± 2.9
333.0	21 ± 1.3	19 ± 1.0	33 ± 2.8	24 ± 5.2	28 ± 2.9
1000.0	27 ± 5.0	28 ± 3.2	38 ± 4.1	33 ± 2.6	34 ± 1.2
3333.0	47 ± 1.0	41 ± 5.5	45 ± 7.6	43 ± 2.7	39 ± 3.8
6667.0	35 ± 4.1	37 ± 4.5 <sup>s</sup>	56 ± 2.1	44 ± 3.7	52 ± 3.5
10000.0	3 ± 1.8 <sup>s</sup>	2 ± 0.9 <sup>s</sup>	51 ± 1.2	47 ± 2.9 <sup>s</sup>	59 ± 4.7
Trial Summary	Negative	Weakly Positive	Equivocal	Equivocal	Equivocal
Positive Control <sup>2</sup>					864 ± 9.2
Positive Control <sup>3</sup>			658 ± 20.9	418 ± 21.8	
Positive Control <sup>6</sup>	1377 ± 17.0	1277 ± 59.0			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	28 ± 3.5
333.0	27 ± 1.5
1000.0	38 ± 5.7
3333.0	40 ± 1.9
6667.0	52 ± 3.7
10000.0	51 ± 2.1 <sup>s</sup>
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	553 ± 39.4
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	

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**LEGEND**

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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: Water

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 \*\***