

Experiment Number: A32732

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

**G06: Ames Summary Data**

Test Compound: **Dimethylolurea**

CAS Number: **140-95-4**

Date Report Requested: **09/16/2018**

Time Report Requested: **17:31:25**

**NTP Study Number:**

A32732

**Study Result:**

Positive

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	154 ± 8.3	122 ± 3.0	127 ± 4.9
10.0	153 ± 5.5	118 ± 10.7	145 ± 6.6
33.0	146 ± 10.0	116 ± 11.2	130 ± 7.1
100.0	137 ± 5.5	126 ± 10.1	132 ± 3.8
333.0	139 ± 2.6	52 ± 52.3 <sup>x</sup>	132 ± 12.4
1000.0	160 ± 2.7	139 ± 5.9	134 ± 9.4
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			722 ± 12.4
Positive Control <sup>3</sup>		657 ± 20.5	
Positive Control <sup>4</sup>	928 ± 7.2		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.8	12 ± 2.3	12 ± 2.3
33.0	13 ± 1.5	13 ± 2.2	10 ± 1.5
100.0	13 ± 0.9	10 ± 1.3	10 ± 2.0
333.0	12 ± 1.7	13 ± 0.7	12 ± 1.5
1000.0	13 ± 2.3	12 ± 1.5	11 ± 2.0
1666.0	Toxic	11 ± 0.6	9 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			115 ± 9.1
Positive Control <sup>4</sup>	846 ± 26.2		
Positive Control <sup>5</sup>		91 ± 7.4	

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>6</sup>		10 ± 1.5
Vehicle Control <sup>1</sup>	12 ± 2.6	
100.0	14 ± 2.7	10 ± 0.3
333.0	12 ± 0.0	9 ± 2.8
666.0	14 ± 2.6	10 ± 0.9
1000.0	11 ± 2.2	10 ± 1.2
1666.0	11 ± 0.7	11 ± 0.6
3333.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>	161 ± 21.3	115 ± 7.0

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Date Report Requested: 09/16/2018  
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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>6</sup>					
Vehicle Control <sup>1</sup>	159 ± 7.4	185 ± 5.5	153 ± 2.9	172 ± 7.9	163 ± 7.9
33.0	162 ± 2.5	177 ± 5.2		153 ± 3.2	
100.0	163 ± 8.4	192 ± 3.4	154 ± 16.0	160 ± 5.5	182 ± 2.8
333.0	147 ± 14.4	172 ± 3.5	175 ± 3.6	161 ± 12.3	195 ± 3.0
666.0			182 ± 3.8		219 ± 8.0
1000.0	167 ± 5.2	150 ± 6.7	209 ± 9.1	217 ± 17.7	250 ± 12.8
1666.0	Toxic	163 ± 3.4	221 ± 37.6	297 ± 2.4	304 ± 4.8
3333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Weakly Positive	Equivocal	Weakly Positive
Positive Control <sup>7</sup>			732 ± 11.0		
Positive Control <sup>2</sup>				552 ± 13.9	673 ± 11.4
Positive Control <sup>3</sup>		480 ± 32.0			
Positive Control <sup>8</sup>	635 ± 34.1				

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>6</sup>		133 ± 12.6
Vehicle Control <sup>1</sup>	127 ± 6.1	
33.0		
100.0	132 ± 4.9	141 ± 3.3
333.0	166 ± 7.5	167 ± 4.6
666.0	183 ± 7.0	181 ± 9.1
1000.0	268 ± 15.6	265 ± 4.8
1666.0	337 ± 25.0	305 ± 6.4
3333.0	Toxic	Toxic
Trial Summary	Positive	Positive
Positive Control <sup>7</sup>		
Positive Control <sup>2</sup>		529 ± 11.1
Positive Control <sup>3</sup>	607 ± 11.6	
Positive Control <sup>8</sup>		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 1.3	17 ± 2.0	19 ± 2.4
10.0	22 ± 7.4	19 ± 1.9	18 ± 0.6
33.0	22 ± 2.4	16 ± 1.2	15 ± 2.4
100.0	24 ± 0.3	14 ± 1.0	14 ± 3.0
333.0	19 ± 1.2	17 ± 1.5	19 ± 2.1
1000.0	17 ± 1.2	16 ± 2.7	21 ± 2.6
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			545 ± 16.9
Positive Control <sup>9</sup>	355 ± 17.6		
Positive Control <sup>3</sup>		536 ± 45.1	

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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: 2.0 ug/Plate 2-Aminoanthracene

3: 5.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 10.0 ug/Plate 2-Aminoanthracene

6: Vehicle Control: Dimethyl Sulfoxide

7: 1.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

x: Slight Toxicity and Precipitate

**\*\* END OF REPORT \*\***