

Experiment Number: 229896

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dimethyl sulfoxide

CAS Number: 67-68-5

Date Report Requested: 09/15/2018

Time Report Requested: 03:34:01

**NTP Study Number:**

229896

**Study Result:**

Negative

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Test Compound: Dimethyl sulfoxide

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	138 ± 3.0	113 ± 6.1	113 ± 5.0	138 ± 3.8	105 ± 1.2
100.0	133 ± 6.7	107 ± 5.6	121 ± 9.6	140 ± 5.0	110 ± 2.3
333.0	155 ± 7.6	106 ± 5.6	119 ± 4.5	147 ± 11.9	111 ± 10.6
1000.0	139 ± 3.5	110 ± 9.3	116 ± 2.7	128 ± 4.0	105 ± 1.8
3333.0	126 ± 10.5	107 ± 7.9	108 ± 0.9	128 ± 5.8	93 ± 3.5
10000.0	157 ± 12.3	113 ± 6.9	107 ± 4.7	129 ± 6.1	102 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					279 ± 10.3
Positive Control <sup>3</sup>	586 ± 3.5	414 ± 12.2			
Positive Control <sup>4</sup>			1440 ± 66.4		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1005 ± 15.6	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	142 ± 9.8
100.0	145 ± 8.4
333.0	155 ± 4.9
1000.0	159 ± 5.1
3333.0	147 ± 13.5
10000.0	136 ± 4.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	728 ± 12.7
Positive Control <sup>6</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 5.2	19 ± 5.0	10 ± 1.8	15 ± 2.3	16 ± 0.6
100.0	19 ± 5.4	24 ± 2.3	12 ± 3.5	14 ± 1.8	12 ± 3.3
333.0	27 ± 1.7	24 ± 3.2	11 ± 2.6	15 ± 1.0	15 ± 2.0
1000.0	19 ± 1.8	17 ± 2.6	14 ± 1.7	15 ± 1.7	12 ± 1.5
3333.0	22 ± 2.5	22 ± 2.5	11 ± 1.9	15 ± 0.9	9 ± 1.5
10000.0	24 ± 1.8	18 ± 2.9	11 ± 0.9	15 ± 4.4	9 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					52 ± 3.2
Positive Control <sup>3</sup>		272 ± 16.2			
Positive Control <sup>5</sup>					
Positive Control <sup>7</sup>	852 ± 11.7				
Positive Control <sup>6</sup>			328 ± 17.1	308 ± 4.1	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 1.0
100.0	14 ± 4.3
333.0	14 ± 1.8
1000.0	13 ± 0.9
3333.0	16 ± 3.8
10000.0	15 ± 2.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	180 ± 6.9
Positive Control <sup>7</sup>	
Positive Control <sup>6</sup>	

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**Strain: TA97**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	122 ± 3.0	118 ± 6.0	115 ± 7.6	158 ± 11.9	112 ± 3.4
100.0	141 ± 1.2	114 ± 5.0	137 ± 3.5	183 ± 2.6	130 ± 4.7
333.0	131 ± 15.0	123 ± 3.9	128 ± 2.9	180 ± 11.8	109 ± 5.8
1000.0	117 ± 3.4	123 ± 12.0	131 ± 3.5	155 ± 10.7	129 ± 7.0
3333.0	150 ± 11.7	131 ± 3.5	119 ± 4.7	167 ± 3.5	118 ± 7.8
10000.0	138 ± 9.6	118 ± 8.0	132 ± 6.0	158 ± 3.9	120 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>8</sup>	960 ± 22.6	512 ± 18.1			
Positive Control <sup>4</sup>					812 ± 35.0
Positive Control <sup>6</sup>			2756 ± 30.8		
Positive Control <sup>9</sup>				1606 ± 101.3	

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	122 ± 5.1
100.0	111 ± 5.5
333.0	141 ± 3.7
1000.0	136 ± 1.2
3333.0	132 ± 5.1
10000.0	119 ± 8.7
Trial Summary	Negative
Positive Control <sup>8</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>9</sup>	1436 ± 48.3

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 0.9	23 ± 1.7	27 ± 3.8	32 ± 1.9	35 ± 2.7
100.0	13 ± 2.3	21 ± 1.7	27 ± 0.9	31 ± 1.9	36 ± 1.5
333.0	15 ± 3.5	16 ± 2.1	32 ± 2.0	31 ± 1.0	35 ± 7.2
1000.0	21 ± 4.2	17 ± 3.8	33 ± 4.7	29 ± 1.8	33 ± 4.3
3333.0	25 ± 2.4	19 ± 1.7	35 ± 3.2	34 ± 4.2	32 ± 2.8
10000.0	17 ± 3.0	21 ± 4.2	32 ± 1.7	27 ± 1.2	31 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			211 ± 8.2		110 ± 2.6
Positive Control <sup>10</sup>	330 ± 13.1	330 ± 8.4			
Positive Control <sup>5</sup>				338 ± 12.6	



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	35 ± 1.7
100.0	34 ± 3.7
333.0	32 ± 1.7
1000.0	34 ± 4.9
3333.0	31 ± 6.8
10000.0	31 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>10</sup>	
Positive Control <sup>5</sup>	604 ± 17.9

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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: 0.4 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: 1.0 ug/Plate Sodium Azide

8: 0.05 ug/Plate Solvent

9: 2.5 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

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