

Experiment Number: 960949

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 09/17/2018

Time Report Requested: 21:28:08

**NTP Study Number:**

960949

**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% Hamster S9
Vehicle Control <sup>1</sup>	98 ± 3.8	96 ± 5.8	137 ± 1.7	147 ± 2.6	143 ± 5.5
100.0	105 ± 2.2	116 ± 10.7	136 ± 13.5	149 ± 10.0	139 ± 17.2
333.0	131 ± 6.2	115 ± 8.3	130 ± 5.1	153 ± 5.8	124 ± 7.3
1000.0	128 ± 6.4	111 ± 6.9	139 ± 8.9	141 ± 1.2	146 ± 12.4
3333.0	117 ± 6.8	106 ± 6.6	134 ± 8.5	133 ± 4.0	157 ± 2.9
10000.0	118 ± 3.1	131 ± 9.5	122 ± 16.3	157 ± 4.8	155 ± 5.0
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	405 ± 7.1	258 ± 18.6			
Positive Control <sup>3</sup>			885 ± 103.7	550 ± 48.0	1065 ± 143.4

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	134 ± 12.6
100.0	158 ± 5.8
333.0	146 ± 10.7
1000.0	159 ± 5.6
3333.0	159 ± 7.9
10000.0	156 ± 10.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1091 ± 279.2

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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 <sup>1</sup>	25 ± 3.8	15 ± 1.5	11 ± 1.5	7 ± 1.2	6 ± 1.3
100.0	23 ± 5.0	22 ± 4.9	9 ± 1.7	9 ± 2.4	9 ± 2.7
333.0	22 ± 3.6	25 ± 6.2	9 ± 2.7	6 ± 0.6	11 ± 1.9
1000.0	29 ± 0.6	28 ± 5.5	11 ± 2.1	10 ± 3.1	9 ± 0.3
3333.0	27 ± 6.8	26 ± 2.8	10 ± 2.5	7 ± 1.0	12 ± 0.0
10000.0	22 ± 5.2	22 ± 2.7	6 ± 1.2	10 ± 3.1	10 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	452 ± 12.8	243 ± 13.2			
Positive Control <sup>4</sup>			162 ± 11.8	109 ± 6.6	437 ± 22.8

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.9
100.0	10 ± 2.7
333.0	6 ± 1.2
1000.0	9 ± 2.5
3333.0	7 ± 0.9
10000.0	12 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	318 ± 29.7

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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 <sup>1</sup>	3 ± 1.3	4 ± 0.6	9 ± 2.2	9 ± 2.1	7 ± 1.9
100.0	7 ± 1.2	4 ± 0.7	8 ± 1.9	9 ± 2.1	12 ± 0.9
333.0	5 ± 1.5	3 ± 0.9	10 ± 2.1	7 ± 2.6	8 ± 2.3
1000.0	5 ± 1.3	3 ± 0.7	6 ± 1.2	9 ± 2.5	9 ± 0.6
3333.0	7 ± 0.9	4 ± 0.7	5 ± 0.3	5 ± 2.0	10 ± 1.5
10000.0	7 ± 0.7	3 ± 0.9	6 ± 1.2	6 ± 2.0	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			116 ± 23.4	129 ± 1.0	409 ± 14.9
Positive Control <sup>5</sup>	149 ± 27.8	103 ± 11.6			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.9
100.0	5 ± 1.2
333.0	6 ± 1.2
1000.0	8 ± 0.7
3333.0	10 ± 2.3
10000.0	11 ± 1.0
Trial Summary	Negative
Positive Control <sup>4</sup>	286 ± 17.9
Positive Control <sup>5</sup>	

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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>	16 ± 0.7	16 ± 1.2	24 ± 3.9	31 ± 1.5	31 ± 0.0
100.0	23 ± 3.0	13 ± 2.3	26 ± 1.5	25 ± 2.3	27 ± 2.3
333.0	17 ± 0.3	17 ± 1.8	24 ± 5.4	31 ± 3.2	25 ± 1.8
1000.0	16 ± 1.7	13 ± 0.0	28 ± 0.7	30 ± 2.8	29 ± 1.7
3333.0	16 ± 2.0	12 ± 2.3	22 ± 4.8	28 ± 1.5	24 ± 0.0
10000.0	17 ± 0.6	18 ± 3.0	34 ± 3.6	32 ± 3.2	27 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			414 ± 16.7	384 ± 16.8	827 ± 37.4
Positive Control <sup>6</sup>	830 ± 6.0	562 ± 41.1			



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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>	26 ± 5.3
100.0	28 ± 0.3
333.0	38 ± 0.9
1000.0	31 ± 1.3
3333.0	35 ± 1.8
10000.0	34 ± 1.5
Trial Summary	Negative
Positive Control <sup>3</sup>	881 ± 191.7
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

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