

Experiment Number: 814479

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dimethylformamide

CAS Number: 68-12-2

Date Report Requested: 09/15/2018

Time Report Requested: 14:07:40

**NTP Study Number:**

814479

**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>	120 ± 7.0	101 ± 5.4	153 ± 9.6	100 ± 7.3	136 ± 19.9
100.0	152 ± 5.0	94 ± 4.7	132 ± 18.2	101 ± 9.2	140 ± 3.9
333.3	142 ± 8.7	97 ± 9.7	146 ± 9.9	90 ± 1.0	168 ± 14.0
1000.0	137 ± 12.8	92 ± 5.4	146 ± 12.8	88 ± 3.8	150 ± 7.2
3333.3	126 ± 6.2	92 ± 10.1	152 ± 13.1	80 ± 4.9	149 ± 10.7
10000.0	140 ± 7.9	91 ± 4.7	149 ± 5.7	87 ± 4.3	142 ± 5.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	448 ± 12.5	439 ± 45.5			
Positive Control <sup>3</sup>			813 ± 51.8	317 ± 20.9	1385 ± 34.2

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	114 ± 6.7
100.0	83 ± 3.2
333.3	90 ± 1.5
1000.0	92 ± 2.9
3333.3	91 ± 8.5
10000.0	93 ± 7.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1325 ± 39.9

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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>	26 ± 5.0	12 ± 0.3	12 ± 2.1	9 ± 1.7	10 ± 4.4
100.0	29 ± 4.9	13 ± 2.1	12 ± 1.5	9 ± 1.5	9 ± 2.0
333.3	20 ± 0.7	13 ± 2.4	12 ± 2.6	7 ± 1.2	10 ± 3.8
1000.0	27 ± 6.4	10 ± 1.7	9 ± 2.1	8 ± 2.3	11 ± 0.7
3333.3	30 ± 3.6	13 ± 1.3	11 ± 0.6	4 ± 1.2	12 ± 2.7
10000.0	25 ± 5.8	13 ± 1.0	11 ± 1.2	9 ± 1.9	7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	502 ± 22.4	388 ± 8.0			
Positive Control <sup>4</sup>			453 ± 11.8	216 ± 5.4	491 ± 11.8

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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 ± 0.3
100.0	6 ± 2.1
333.3	6 ± 1.2
1000.0	6 ± 0.6
3333.3	6 ± 1.2
10000.0	7 ± 2.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	325 ± 6.2

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Test Compound: Dimethylformamide

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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>	8 ± 1.5	11 ± 1.8	23 ± 1.2	6 ± 0.3	17 ± 0.3
100.0	14 ± 0.7	5 ± 1.0	16 ± 1.7	9 ± 3.2	18 ± 0.7
333.3	13 ± 3.3	6 ± 0.6	23 ± 5.0	5 ± 1.2	20 ± 0.7
1000.0	13 ± 2.0	8 ± 2.0	31 ± 5.7	6 ± 1.2	20 ± 1.7
3333.3	15 ± 1.5	5 ± 0.3	15 ± 0.7	6 ± 1.7	20 ± 0.7
10000.0	15 ± 2.4	10 ± 1.2	16 ± 0.3	6 ± 1.2	19 ± 3.2
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			251 ± 15.0	134 ± 7.3	253 ± 28.4
Positive Control <sup>5</sup>	270 ± 37.9	383 ± 25.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.3
100.0	7 ± 1.5
333.3	7 ± 1.2
1000.0	5 ± 0.9
3333.3	6 ± 0.6
10000.0	9 ± 0.9
Trial Summary	Negative
Positive Control <sup>4</sup>	448 ± 14.2
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>	29 ± 1.5	15 ± 1.9	45 ± 3.8	35 ± 4.1	35 ± 5.0
100.0	26 ± 0.6	23 ± 2.6	40 ± 5.9	29 ± 6.4	36 ± 1.9
333.3	21 ± 4.7	21 ± 1.7	44 ± 2.0	25 ± 1.9	31 ± 2.6
1000.0	25 ± 4.8	16 ± 0.7	43 ± 6.6	34 ± 2.3	33 ± 3.5
3333.3	22 ± 1.7	19 ± 2.9	46 ± 4.9	28 ± 6.6	35 ± 5.1
10000.0	24 ± 4.1	21 ± 2.1	45 ± 2.0	33 ± 3.2	34 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			537 ± 21.5	156 ± 4.9	1204 ± 29.5
Positive Control <sup>6</sup>	658 ± 15.5	651 ± 14.8			



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Test Compound: Dimethylformamide

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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>	23 ± 1.9
100.0	29 ± 3.5
333.3	28 ± 2.2
1000.0	32 ± 2.3
3333.3	23 ± 1.5
10000.0	25 ± 0.7
Trial Summary	Negative
Positive Control <sup>3</sup>	714 ± 47.6
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: Dimethyl Sulfoxide

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 \*\***