

Experiment Number: 099842

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Phenyl-2-ethylmalondiamide

CAS Number: 80147-40-6

Date Report Requested: 09/11/2018

Time Report Requested: 13:22:47

**NTP Study Number:**

099842

**Study Result:**

Weakly Positive

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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>	132 ± 11.1	129 ± 1.5	147 ± 2.3	151 ± 8.7	145 ± 10.9
100.0	126 ± 6.7	135 ± 7.1	155 ± 11.0	138 ± 7.6	141 ± 4.3
333.0	139 ± 3.3	136 ± 2.6	141 ± 3.5	144 ± 14.2	147 ± 6.5
1000.0	132 ± 9.0	128 ± 6.2	144 ± 2.7	132 ± 4.7	124 ± 1.5
3333.0	151 ± 5.8	138 ± 4.1	137 ± 6.9	131 ± 7.6	123 ± 5.7
10000.0	149 ± 9.9	134 ± 2.9	131 ± 11.5	129 ± 12.4	133 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	410 ± 12.2	549 ± 26.5			
Positive Control <sup>3</sup>			594 ± 23.8	303 ± 16.6	2085 ± 107.9

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	132 ± 9.7
100.0	132 ± 14.1
333.0	148 ± 6.1
1000.0	143 ± 5.2
3333.0	118 ± 3.1
10000.0	131 ± 7.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	538 ± 42.5

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	27 ± 1.5	27 ± 1.8	27 ± 3.3	9 ± 1.5	14 ± 1.2
100.0	21 ± 0.7	27 ± 2.7		11 ± 1.9	13 ± 0.9
333.0	26 ± 4.2	32 ± 1.7	26 ± 3.2	7 ± 0.3	10 ± 2.0
1000.0	28 ± 5.7	36 ± 2.3	30 ± 5.0	10 ± 1.5	14 ± 1.7
3333.0	33 ± 3.2	44 ± 3.2	43 ± 3.5	8 ± 0.3	11 ± 1.5
6666.0			46 ± 1.7		
10000.0	41 ± 3.9	48 ± 4.8	52 ± 3.0	7 ± 1.2	15 ± 2.2
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control <sup>2</sup>	386 ± 12.9	553 ± 19.8	377 ± 12.7		
Positive Control <sup>4</sup>				136 ± 9.9	239 ± 7.2

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 0.9	18 ± 0.9
100.0	5 ± 1.2	14 ± 2.6
333.0	9 ± 3.5	11 ± 1.5
1000.0	12 ± 1.2	14 ± 0.9
3333.0	10 ± 1.7	6 ± 1.2
6666.0		
10000.0	9 ± 2.4	7 ± 0.9
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>4</sup>	434 ± 34.9	525 ± 8.8

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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>	155 ± 5.5	140 ± 4.7	180 ± 4.3	191 ± 8.8	186 ± 6.4
100.0	139 ± 6.4	142 ± 8.6	179 ± 6.2	195 ± 5.0	158 ± 3.5
333.0	148 ± 9.7	153 ± 2.0	168 ± 5.0	201 ± 1.2	151 ± 7.1
1000.0	139 ± 6.1	149 ± 10.6	203 ± 11.5	134 ± 66.8	139 ± 0.9
3333.0	131 ± 8.3	151 ± 6.9	180 ± 13.4	178 ± 19.0	150 ± 5.5
10000.0	144 ± 9.1	156 ± 9.6	175 ± 12.8	183 ± 3.8	153 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			859 ± 42.5	441 ± 11.1	1787 ± 78.0
Positive Control <sup>5</sup>	879 ± 104.3	998 ± 57.7			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	157 ± 2.5
100.0	182 ± 4.8
333.0	179 ± 4.2
1000.0	175 ± 9.9
3333.0	187 ± 14.5
10000.0	173 ± 5.2
Trial Summary	Negative
Positive Control <sup>4</sup>	1099 ± 12.9
Positive Control <sup>5</sup>	

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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>	28 ± 0.3	24 ± 2.6	33 ± 4.0	36 ± 3.5	37 ± 3.0
100.0	38 ± 1.5	19 ± 1.0	30 ± 3.1	29 ± 4.3	29 ± 1.8
333.0	25 ± 0.6	22 ± 4.1	29 ± 3.9	32 ± 2.3	38 ± 1.5
1000.0	27 ± 3.7	20 ± 2.9	27 ± 2.3	29 ± 0.9	36 ± 3.7
3333.0	25 ± 2.3	25 ± 4.2	37 ± 3.6	28 ± 4.0	40 ± 5.0
10000.0	24 ± 2.9	29 ± 0.6	35 ± 1.5	30 ± 2.4	35 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			317 ± 9.8	184 ± 10.2	1520 ± 30.2
Positive Control <sup>6</sup>	1449 ± 18.8	1372 ± 46.2			



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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 ± 3.6
100.0	26 ± 1.2
333.0	32 ± 2.5
1000.0	25 ± 2.6
3333.0	33 ± 4.2
10000.0	33 ± 4.3
Trial Summary	Negative
Positive Control <sup>3</sup>	358 ± 30.7
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: 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 \*\***