

Experiment Number: 879978

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1(2H)-Phthalazinone

CAS Number: 119-39-1

Date Report Requested: 09/16/2018

Time Report Requested: 19:19:05

**NTP Study Number:**

879978

**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>	140 ± 3.3	123 ± 11.1	136 ± 11.0	120 ± 9.8	10 ± 3.2
100.0	131 ± 7.7	111 ± 11.6	147 ± 4.7	134 ± 6.7	12 ± 0.9
333.0	145 ± 1.5	122 ± 12.0	135 ± 4.3	131 ± 6.0	9 ± 4.0
1000.0	130 ± 4.9	103 ± 3.3	122 ± 2.8	120 ± 1.7	12 ± 2.6
3333.0	125 ± 5.1	94 ± 8.2	114 ± 3.1	114 ± 5.2	10 ± 1.7
10000.0	49 ± 3.2	52 ± 2.5	60 ± 3.3	63 ± 3.7	4 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					2018 ± 51.5
Positive Control <sup>3</sup>			981 ± 32.9	953 ± 64.5	
Positive Control <sup>4</sup>	2196 ± 54.8	1050 ± 27.4			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	95 ± 5.2	130 ± 1.2
100.0	91 ± 10.1	119 ± 9.4
333.0	100 ± 10.7	127 ± 3.7
1000.0	101 ± 5.6	127 ± 3.7
3333.0	83 ± 4.2	108 ± 6.4
10000.0	55 ± 2.2	62 ± 5.6
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	2321 ± 205.9	936 ± 31.0
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		

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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>	32 ± 0.3	24 ± 2.2	10 ± 2.2	11 ± 1.5	133 ± 7.2
100.0	41 ± 2.3	26 ± 0.6	11 ± 2.3	8 ± 1.3	126 ± 1.8
333.0	35 ± 2.2	24 ± 1.2	10 ± 1.2	11 ± 1.7	132 ± 5.9
1000.0	25 ± 2.6	21 ± 2.9	7 ± 0.6	8 ± 1.5	126 ± 4.4
3333.0	24 ± 3.7	23 ± 4.2	6 ± 0.3	11 ± 1.2	74 ± 9.0
10000.0	23 ± 1.2	15 ± 2.2	12 ± 2.5	9 ± 1.0	51 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					139 ± 9.8
Positive Control <sup>3</sup>			58 ± 3.5	49 ± 2.7	
Positive Control <sup>4</sup>	1950 ± 131.0	766 ± 44.5			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 0.6	9 ± 1.3
100.0	8 ± 0.3	9 ± 2.3
333.0	8 ± 2.5	7 ± 0.9
1000.0	11 ± 0.9	8 ± 1.3
3333.0	10 ± 1.2	6 ± 2.3
10000.0	9 ± 0.3	6 ± 0.9
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	212 ± 6.0	47 ± 5.0
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		

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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 ± 0.6	3 ± 0.3	10 ± 1.3	5 ± 3.0	30 ± 4.4
100.0	7 ± 2.0	7 ± 2.3	7 ± 1.2	6 ± 2.4	28 ± 0.3
333.0	5 ± 0.0	7 ± 1.8	6 ± 2.0	7 ± 1.9	25 ± 4.2
1000.0	7 ± 0.7	5 ± 0.3	4 ± 1.5	7 ± 2.5	29 ± 2.0
3333.0	10 ± 2.7	5 ± 0.9	5 ± 0.3	5 ± 1.2	22 ± 3.0
10000.0	8 ± 0.9	3 ± 0.7	5 ± 0.3	4 ± 0.7	14 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					184 ± 6.8
Positive Control <sup>3</sup>			66 ± 2.7	72 ± 7.2	
Positive Control <sup>5</sup>	389 ± 37.4	297 ± 15.6			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.7	8 ± 2.7
100.0	6 ± 1.2	5 ± 1.9
333.0	5 ± 1.3	4 ± 0.6
1000.0	6 ± 1.8	6 ± 1.0
3333.0	5 ± 0.9	7 ± 2.0
10000.0	4 ± 0.3	6 ± 0.9
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	370 ± 22.0	71 ± 9.6
Positive Control <sup>3</sup>		
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>	18 ± 1.5	14 ± 2.0	31 ± 1.9	14 ± 1.3	8 ± 0.6
100.0	23 ± 2.6	14 ± 0.6	24 ± 0.3	23 ± 2.2	7 ± 1.2
333.0	17 ± 1.0	16 ± 3.9	25 ± 2.2	18 ± 3.8	7 ± 2.7
1000.0	14 ± 1.7	15 ± 1.0	20 ± 2.7	15 ± 0.6	8 ± 0.6
3333.0	19 ± 4.1	16 ± 2.6	19 ± 3.2	17 ± 3.3	7 ± 1.5
10000.0	12 ± 1.2	9 ± 1.7	17 ± 2.0	10 ± 0.6	4 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1461 ± 35.9
Positive Control <sup>3</sup>			820 ± 8.5	811 ± 26.5	
Positive Control <sup>6</sup>	1499 ± 56.6	1223 ± 56.9			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	29 ± 1.8	24 ± 0.3
100.0	25 ± 4.4	22 ± 2.6
333.0	26 ± 3.3	25 ± 0.9
1000.0	25 ± 2.1	15 ± 3.8
3333.0	22 ± 2.0	20 ± 1.9
10000.0	10 ± 1.2	12 ± 0.6
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	2709 ± 155.2	859 ± 12.9
Positive Control <sup>3</sup>		
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

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