

Experiment Number: 539410

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **2,4-Diaminophenol dihydrochloride**

CAS Number: **137-09-7**

Date Report Requested: **09/13/2018**

Time Report Requested: **00:52:47**

**NTP Study Number:**

539410

**Study Result:**

Positive

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	116 ± 7.2	111 ± 6.4	107 ± 11.6
0.1	106 ± 5.1	124 ± 0.9	94 ± 6.9
0.33	90 ± 3.3	129 ± 4.5	99 ± 11.1
1.0	111 ± 5.2	128 ± 3.7	111 ± 11.3
3.3	95 ± 6.2	109 ± 12.1	110 ± 7.0
10.0	79 ± 3.8 <sup>s</sup>	117 ± 13.3	117 ± 11.4
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			2118 ± 75.9
Positive Control <sup>3</sup>		1172 ± 163.2	
Positive Control <sup>4</sup>	2181 ± 19.4		

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	13 ± 1.7	8 ± 0.9	8 ± 2.5
0.1	17 ± 1.2	8 ± 2.3	11 ± 2.0
0.33	15 ± 3.2	9 ± 0.6	9 ± 0.7
1.0	15 ± 1.3	9 ± 0.7	12 ± 1.2
3.3	7 ± 0.3	9 ± 0.9	10 ± 1.2
10.0	4 ± 2.3 <sup>s</sup>	7 ± 1.7	11 ± 1.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			193 ± 13.7
Positive Control <sup>3</sup>		121 ± 8.9	
Positive Control <sup>4</sup>	1102 ± 30.3		

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 0.6	6 ± 1.7	6 ± 1.5
0.1	6 ± 0.6	8 ± 0.9	10 ± 1.5
0.33	6 ± 0.9	5 ± 1.9	6 ± 1.2
1.0	9 ± 1.9	5 ± 0.6	6 ± 1.2
3.3	9 ± 1.8	5 ± 1.5	11 ± 0.9
10.0	4 ± 1.2	6 ± 1.9	7 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			312 ± 11.9
Positive Control <sup>3</sup>		58 ± 6.4	
Positive Control <sup>5</sup>	645 ± 73.5		

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Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: 2,4-Diaminophenol dihydrochloride  
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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>	15 ± 1.2	15 ± 3.5	15 ± 1.7	14 ± 2.7	20 ± 1.2
0.1	14 ± 1.2	12 ± 4.2	20 ± 1.5	14 ± 2.5	20 ± 4.0
0.33	15 ± 0.6	18 ± 2.5	19 ± 1.9	21 ± 4.0	24 ± 6.5
1.0	16 ± 4.1	17 ± 3.4	16 ± 3.5	31 ± 1.7	27 ± 1.5
3.3	3 ± 2.4 <sup>s</sup>	Toxic	33 ± 3.8	42 ± 8.1	68 ± 7.3
10.0	3 ± 0.3 <sup>s</sup>	Toxic	59 ± 4.5	83 ± 13.9	27 ± 2.2
Trial Summary	Negative	Negative	Positive	Positive	Equivocal
Positive Control <sup>2</sup>					2076 ± 134.0
Positive Control <sup>3</sup>			1328 ± 60.5	1013 ± 25.2	
Positive Control <sup>6</sup>	1571 ± 28.5	1774 ± 100.0			

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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>	13 ± 1.2
0.1	21 ± 3.4
0.33	28 ± 5.2
1.0	35 ± 1.9
3.3	78 ± 12.6
10.0	57 ± 17.7
Trial Summary	Positive
Positive Control <sup>2</sup>	1387 ± 6.9
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: Water

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

s: Slight Toxicity

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