

Experiment Number: 646507

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: p-Phenylenediamine dihydrochloride

CAS Number: 624-18-0

Date Report Requested: 09/11/2018

Time Report Requested: 05:09:45

**NTP Study Number:**

646507

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	76 ± 2.2	81 ± 2.5	132 ± 5.2	111 ± 2.7	118 ± 0.3
100.0	85 ± 9.7	90 ± 5.5	138 ± 1.5	97 ± 5.5	101 ± 4.0
250.0		90 ± 3.4	150 ± 8.9	94 ± 5.9	106 ± 4.3
333.0	82 ± 3.8				
1000.0	95 ± 7.2	96 ± 4.8	134 ± 3.2	98 ± 4.7	109 ± 4.1
2500.0	79 ± 5.0	97 ± 9.0	173 ± 7.2	104 ± 4.5	115 ± 0.7
3333.0	98 ± 5.5				
10000.0		85 ± 3.3 <sup>s</sup>	417 ± 16.2 <sup>p</sup>	97 ± 0.3 <sup>x</sup>	155 ± 21.8 <sup>x</sup>
Trial Summary	Negative	Negative	Positive	Negative	Equivocal
Positive Control <sup>2</sup>	278 ± 8.6	336 ± 6.6			
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>			318 ± 11.6	232 ± 14.9	255 ± 9.0

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	111 ± 12.3	110 ± 4.3
100.0	135 ± 3.5	119 ± 6.4
250.0		150 ± 3.5
333.0	156 ± 8.7	
1000.0	165 ± 2.2	167 ± 6.6
2500.0	195 ± 8.6	194 ± 11.8
3333.0	198 ± 2.5	
10000.0		115 ± 5.3 <sup>x</sup>
Trial Summary	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	358 ± 13.0	352 ± 11.9
Positive Control <sup>4</sup>		

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.0	14 ± 0.7	27 ± 3.6	16 ± 0.3	38 ± 8.3
100.0	8 ± 2.6	16 ± 0.6	32 ± 1.2	30 ± 2.7	56 ± 6.3
250.0		15 ± 1.8	43 ± 1.5	34 ± 3.5	115 ± 1.3
333.0	17 ± 2.0				
1000.0	10 ± 2.0	14 ± 2.7	111 ± 10.9	104 ± 6.4	363 ± 12.7
2500.0	13 ± 3.4	13 ± 3.0	310 ± 5.2	267 ± 6.7	862 ± 32.3
3333.0	10 ± 3.1				
10000.0		14 ± 2.3 <sup>s</sup>	46 ± 2.0 <sup>p</sup>	22 ± 2.8 <sup>x</sup>	Toxic
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>5</sup>					144 ± 12.1
Positive Control <sup>6</sup>	159 ± 8.7	114 ± 8.0			
Positive Control <sup>3</sup>			103 ± 3.4	85 ± 4.0	

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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>	26 ± 1.8
100.0	46 ± 3.2
250.0	96 ± 3.8
333.0	
1000.0	284 ± 6.4
2500.0	634 ± 1.7
3333.0	
10000.0	17 ± 2.1 <sup>x</sup>
Trial Summary	Positive
Positive Control <sup>5</sup>	76 ± 4.1
Positive Control <sup>6</sup>	
Positive Control <sup>3</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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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