

Experiment Number: 200662

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 4-Chloro-o-phenylenediamine

CAS Number: 95-83-0

Date Report Requested: 09/14/2018

Time Report Requested: 08:36:18

**NTP Study Number:**

200662

**Study Result:**

Positive

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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>	111 ± 5.5	94 ± 4.7	93 ± 6.7	92 ± 4.7	93 ± 8.1
33.0	94 ± 2.3	98 ± 7.0			
100.0	109 ± 5.8	102 ± 3.5	130 ± 1.8	115 ± 2.7	117 ± 16.8
333.0	110 ± 6.4	117 ± 8.6	156 ± 5.7	154 ± 7.4	186 ± 2.0
667.0				262 ± 13.2	
1000.0	89 ± 9.3	106 ± 2.8	387 ± 10.4	339 ± 16.4	489 ± 12.8
2000.0	80 ± 4.4	112 ± 5.0			
3333.0			314 ± 7.4 <sup>s</sup>	238 ± 21.2 <sup>s</sup>	486 ± 41.1 <sup>s</sup>
6666.0			58 ± 0.5 <sup>s</sup>		Toxic
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					1197 ± 85.3
Positive Control <sup>3</sup>			1856 ± 7.0	2921 ± 32.4	
Positive Control <sup>4</sup>		1210 ± 18.0			
Positive Control <sup>5</sup>	805 ± 16.9				

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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>	77 ± 1.2
33.0	
100.0	144 ± 9.5
333.0	225 ± 8.0
667.0	348 ± 20.2
1000.0	465 ± 13.7
2000.0	
3333.0	Toxic
6666.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	2167 ± 75.3
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 2.7	12 ± 0.9	8 ± 0.7
33.0	20 ± 2.4		
100.0	28 ± 2.6	10 ± 0.3	11 ± 0.9
333.0	21 ± 2.8	11 ± 2.6	12 ± 2.2
1000.0	20 ± 1.0	12 ± 1.2	15 ± 3.4
2000.0	16 ± 4.0		
3333.0		7 ± 0.9 <sup>s</sup>	10 ± 1.7 <sup>s</sup>
6666.0		Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			72 ± 0.3
Positive Control <sup>3</sup>		83 ± 3.2	
Positive Control <sup>4</sup>	721 ± 10.2		

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	85 ± 2.1	99 ± 6.2	108 ± 6.4	126 ± 2.8	103 ± 4.8
33.0	93 ± 5.4	96 ± 5.0			
100.0	82 ± 5.2	114 ± 1.2	148 ± 5.0	180 ± 3.0	161 ± 7.9
333.0	26 ± 3.2	103 ± 8.7	308 ± 4.2	343 ± 8.5	314 ± 10.9
667.0				745 ± 25.0	
1000.0	30 ± 4.4	124 ± 9.7 <sup>s</sup>	1123 ± 33.1	1129 ± 21.2 <sup>s</sup>	679 ± 14.5
2000.0	34 ± 3.0 <sup>s</sup>	106 ± 5.8 <sup>s</sup>			
3333.0			521 ± 101.4 <sup>s</sup>	596 ± 37.5 <sup>s</sup>	1011 ± 16.7 <sup>s</sup>
6666.0			Toxic		10 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					766 ± 9.3
Positive Control <sup>3</sup>			1006 ± 11.9	1223 ± 25.1	
Positive Control <sup>6</sup>	807 ± 10.9	469 ± 47.2			

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Strain: TA97

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 2.1
33.0	
100.0	181 ± 3.2
333.0	313 ± 7.7
667.0	519 ± 18.2
1000.0	812 ± 15.0
2000.0	
3333.0	1193 ± 90.3 <sup>s</sup>
6666.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	848 ± 30.6
Positive Control <sup>3</sup>	
Positive Control <sup>6</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>	20 ± 2.2	34 ± 1.0	23 ± 1.5	56 ± 0.9	27 ± 0.6
33.0	17 ± 2.2	36 ± 3.6			
100.0	14 ± 1.2	34 ± 5.2	56 ± 3.1	87 ± 3.8	62 ± 5.5
333.0	15 ± 1.9	43 ± 3.2	390 ± 11.1	446 ± 2.3	243 ± 26.5
667.0				1458 ± 79.0	
1000.0	14 ± 1.2	35 ± 3.3	2737 ± 211.2	2973 ± 42.7	1111 ± 30.9
2000.0	16 ± 1.3	30 ± 2.1			
3333.0			3770 ± 56.1	2521 ± 389.4 <sup>s</sup>	2988 ± 33.3
6666.0			Toxic		Toxic
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					978 ± 54.5
Positive Control <sup>3</sup>			1337 ± 39.3	2569 ± 60.4	
Positive Control <sup>7</sup>	1733 ± 94.7	2015 ± 36.8			

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	54 ± 0.3
33.0	
100.0	88 ± 7.0
333.0	319 ± 7.5
667.0	828 ± 9.7
1000.0	1214 ± 32.7
2000.0	
3333.0	3388 ± 83.4 <sup>s</sup>
6666.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1821 ± 28.3
Positive Control <sup>3</sup>	
Positive Control <sup>7</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: 2.5 ug/Plate 2-Aminoanthracene

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*