

Experiment Number: 247994

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,4-Dichlorophenol

CAS Number: 120-83-2

Date Report Requested: 09/10/2018

Time Report Requested: 20:24:47

**NTP Study Number:**

247994

**Study Result:**

Equivocal

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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>	115 ± 8.3	148 ± 7.5	104 ± 7.8	117 ± 18.1	121 ± 3.8
3.3	105 ± 7.3	146 ± 6.4	108 ± 5.2	146 ± 2.3	118 ± 0.7
10.0	117 ± 8.3	134 ± 2.6	101 ± 2.0	131 ± 6.1	129 ± 7.5
33.0	108 ± 9.0	144 ± 3.8	114 ± 6.7	145 ± 6.4	112 ± 9.7
100.0	113 ± 10.1	143 ± 1.5	130 ± 1.7	144 ± 7.6	152 ± 10.5
333.0	Toxic	Toxic	100 ± 15.3 <sup>s</sup>	87 ± 2.1 <sup>s</sup>	107 ± 9.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					2500 ± 59.8
Positive Control <sup>3</sup>			1171 ± 36.2	1139 ± 57.5	
Positive Control <sup>4</sup>	1490 ± 67.6	2172 ± 56.8			

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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>	156 ± 4.1
3.3	134 ± 10.5
10.0	143 ± 4.8
33.0	141 ± 6.6
100.0	145 ± 4.9
333.0	124 ± 20.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1086 ± 81.9
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>	20 ± 2.3	27 ± 0.3	12 ± 1.5	10 ± 1.2	11 ± 3.2
3.3	13 ± 1.3	20 ± 4.3	8 ± 1.7	10 ± 1.2	9 ± 0.9
10.0	21 ± 1.2	23 ± 3.5	10 ± 1.5	9 ± 2.6	15 ± 1.7
33.0	24 ± 5.7	27 ± 2.9	15 ± 2.7	11 ± 1.3	13 ± 1.2
100.0	20 ± 1.5	30 ± 1.9	14 ± 1.8	15 ± 4.7	21 ± 1.5
333.0	Toxic	Toxic	18 ± 1.5 <sup>s</sup>	13 ± 2.0	21 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					158 ± 3.7
Positive Control <sup>3</sup>			81 ± 11.3	64 ± 1.0	
Positive Control <sup>4</sup>	1232 ± 47.6	1876 ± 33.0			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 0.9
3.3	10 ± 0.9
10.0	10 ± 1.7
33.0	15 ± 2.5
100.0	14 ± 0.9
333.0	17 ± 0.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	71 ± 2.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: 2,4-Dichlorophenol

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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>	9 ± 1.2	10 ± 2.8	12 ± 0.6	9 ± 1.8	11 ± 3.5
3.3	9 ± 1.8	9 ± 1.2	13 ± 1.0	8 ± 1.3	10 ± 0.7
10.0	8 ± 2.3	10 ± 1.2	10 ± 1.7	9 ± 1.2	12 ± 2.5
33.0	6 ± 0.3	9 ± 0.6	12 ± 1.2	7 ± 2.3	9 ± 1.5
100.0	6 ± 1.0	8 ± 1.5	13 ± 2.0	6 ± 0.7	8 ± 1.2
333.0	Toxic	Toxic	4 ± 0.6 <sup>s</sup>	5 ± 1.2 <sup>s</sup>	9 ± 0.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					278 ± 11.5
Positive Control <sup>3</sup>			133 ± 1.5	72 ± 3.6	
Positive Control <sup>5</sup>	700 ± 50.7	537 ± 386.0			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 1.5
3.3	13 ± 1.2
10.0	10 ± 2.0
33.0	8 ± 1.5
100.0	7 ± 0.3
333.0	9 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	137 ± 5.8
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>	19 ± 2.8	16 ± 1.0	23 ± 3.2	29 ± 0.6	28 ± 1.0
3.3	20 ± 2.3	22 ± 2.4	24 ± 2.0	24 ± 3.5	33 ± 1.2
10.0	28 ± 3.3	17 ± 0.7	31 ± 1.7	22 ± 6.2	30 ± 2.3
33.0	20 ± 3.6	23 ± 0.3	27 ± 3.8	28 ± 1.0	28 ± 3.7
100.0	18 ± 2.0	19 ± 0.0	25 ± 1.2	19 ± 4.0	24 ± 5.5
333.0	Toxic	10 ± 1.7 <sup>s</sup>	14 ± 0.3 <sup>s</sup>	17 ± 3.2	18 ± 3.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1768 ± 33.0
Positive Control <sup>3</sup>			1239 ± 12.8	1385 ± 63.8	
Positive Control <sup>6</sup>	1253 ± 20.3	1827 ± 8.7			



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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	28 ± 2.3
3.3	32 ± 7.0
10.0	32 ± 5.6
33.0	24 ± 2.5
100.0	19 ± 1.2
333.0	21 ± 2.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1639 ± 36.9
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

s: Slight Toxicity

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