

Experiment Number: 771899

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Pentachlorophenol, technical

CAS Number: 87-86-5

Date Report Requested: 09/17/2018

Time Report Requested: 20:58:54

**NTP Study Number:**

771899

**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>	128 ± 8.3	137 ± 7.9	132 ± 3.9	129 ± 13.5	105 ± 11.7
0.3	132 ± 1.7	135 ± 12.3	137 ± 7.5	122 ± 1.5	109 ± 6.5
1.0	128 ± 3.5	147 ± 11.6	141 ± 4.6	124 ± 8.3	110 ± 8.9
3.0	123 ± 2.9	137 ± 4.5	141 ± 8.5	102 ± 1.2	96 ± 6.3
10.0	116 ± 8.7 <sup>s</sup>	102 ± 8.5	142 ± 14.4	115 ± 4.8	125 ± 20.0
30.0	Toxic	Toxic	142 ± 9.1	106 ± 9.0	102 ± 16.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					3233 ± 197.3
Positive Control <sup>3</sup>			2147 ± 60.5	831 ± 38.6	
Positive Control <sup>4</sup>	1394 ± 61.4	1310 ± 24.6			

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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>	121 ± 2.3
0.3	125 ± 3.3
1.0	124 ± 3.3
3.0	107 ± 7.0
10.0	120 ± 1.8
30.0	107 ± 10.1
Trial Summary	Negative
Positive Control <sup>2</sup>	1856 ± 63.4
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>	23 ± 0.3	16 ± 2.8	10 ± 2.3	8 ± 0.9	11 ± 2.9
0.3	24 ± 3.5	12 ± 1.2	14 ± 0.3	7 ± 1.7	11 ± 3.4
1.0	25 ± 2.9	13 ± 3.0	13 ± 2.2	7 ± 0.9	11 ± 1.9
3.0	27 ± 4.5	16 ± 0.9	16 ± 0.3	9 ± 2.0	15 ± 3.3
10.0	18 ± 1.7 <sup>s</sup>	9 ± 1.2 <sup>s</sup>	10 ± 3.5	10 ± 1.8	10 ± 1.8
30.0	Toxic	Toxic	14 ± 2.9	9 ± 1.2	12 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					188 ± 4.2
Positive Control <sup>3</sup>			114 ± 6.8	54 ± 3.6	
Positive Control <sup>4</sup>	850 ± 19.7	983 ± 23.7			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.7
0.3	10 ± 1.5
1.0	10 ± 2.0
3.0	12 ± 2.4
10.0	8 ± 1.9
30.0	9 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	82 ± 0.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: Pentachlorophenol, technical  
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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 ± 1.5	10 ± 1.2	15 ± 1.7	5 ± 1.2	14 ± 3.8
0.3	11 ± 1.2	15 ± 0.9	16 ± 0.3	7 ± 0.9	12 ± 0.6
1.0	9 ± 2.7	12 ± 1.5	16 ± 3.5	7 ± 1.7	13 ± 0.9
3.0	9 ± 1.3	12 ± 1.8	13 ± 2.2	6 ± 1.2	14 ± 1.2
10.0	8 ± 2.3 <sup>s</sup>	9 ± 1.9 <sup>s</sup>	19 ± 4.3	6 ± 1.7	20 ± 1.5
30.0	Toxic	Toxic	12 ± 2.8	9 ± 1.2	12 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					324 ± 49.4
Positive Control <sup>3</sup>			158 ± 2.3	40 ± 3.1	
Positive Control <sup>5</sup>	425 ± 66.9	202 ± 26.3			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 0.3
0.3	13 ± 1.0
1.0	9 ± 0.7
3.0	9 ± 1.3
10.0	7 ± 1.7
30.0	4 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	163 ± 17.5
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>	27 ± 2.1	24 ± 0.9	32 ± 3.2	26 ± 4.4	33 ± 3.6
0.3	20 ± 4.2	18 ± 1.5	30 ± 1.2	23 ± 2.0	39 ± 1.5
1.0	24 ± 4.2	23 ± 4.1	32 ± 4.0	21 ± 0.9	42 ± 7.0
3.0	22 ± 0.6	20 ± 0.3	32 ± 2.2	26 ± 3.5	41 ± 4.6
10.0	20 ± 1.9 <sup>s</sup>	16 ± 1.2	41 ± 4.4	19 ± 2.6	34 ± 0.0
30.0	Toxic	Toxic	33 ± 4.6	26 ± 3.5	32 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2609 ± 36.7
Positive Control <sup>3</sup>			1754 ± 85.7	1064 ± 31.3	
Positive Control <sup>6</sup>	1808 ± 33.4	1096 ± 35.9			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 1.0
0.3	24 ± 1.2
1.0	19 ± 2.3
3.0	28 ± 3.2
10.0	26 ± 5.0
30.0	23 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	1515 ± 72.9
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 \*\***