

Experiment Number: 251113

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

**G06: Ames Summary Data**

Test Compound: **Pentachloronitrobenzene**

CAS Number: **82-68-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **01:50:19**

**NTP Study Number:**

251113

**Study Result:**

Negative

Experiment Number: 251113

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Pentachloronitrobenzene

CAS Number: 82-68-8

Date Report Requested: 09/11/2018

Time Report Requested: 01:50:19

## 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>	99 ± 9.0	124 ± 15.0	121 ± 4.1	176 ± 1.2	102 ± 2.8
1.0					
3.3					
33.3					
100.0	98 ± 2.9	101 ± 5.4	105 ± 2.6	166 ± 15.4	107 ± 5.4
333.3	95 ± 11.1	118 ± 11.9	116 ± 3.9	149 ± 9.5	98 ± 14.1
1000.0	107 ± 1.9 <sup>P</sup>	120 ± 8.1 <sup>P</sup>	113 ± 4.9 <sup>P</sup>	147 ± 6.4 <sup>P</sup>	110 ± 10.3 <sup>P</sup>
3333.3	96 ± 5.5 <sup>P</sup>	122 ± 4.6 <sup>P</sup>	109 ± 12.0 <sup>P</sup>	149 ± 10.7 <sup>P</sup>	126 ± 12.4 <sup>P</sup>
6666.7	107 ± 4.9 <sup>P</sup>	113 ± 6.1 <sup>P</sup>	112 ± 2.3 <sup>P</sup>	139 ± 6.0 <sup>P</sup>	122 ± 11.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	570 ± 16.8	617 ± 21.7			
Positive Control <sup>3</sup>			649 ± 17.8	621 ± 5.1	1199 ± 50.7

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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>	108 ± 11.7
1.0	
3.3	
33.3	
100.0	143 ± 17.8
333.3	154 ± 10.0
1000.0	158 ± 12.4 <sup>p</sup>
3333.3	156 ± 8.7 <sup>p</sup>
6666.7	161 ± 9.6 <sup>p</sup>
Trial Summary	Equivocal
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	442 ± 16.7

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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>	25 ± 4.0	15 ± 2.4	19 ± 3.6	18 ± 1.3	16 ± 1.9
100.0	18 ± 2.7	19 ± 2.6	13 ± 2.2	13 ± 3.3	17 ± 0.6
333.3	23 ± 1.5	21 ± 2.4	10 ± 1.2	9 ± 2.0	14 ± 2.5
1000.0	20 ± 3.5 <sup>p</sup>	19 ± 1.2 <sup>p</sup>	17 ± 3.5 <sup>p</sup>	17 ± 2.7 <sup>p</sup>	13 ± 0.3 <sup>p</sup>
3333.3	22 ± 2.0 <sup>p</sup>	19 ± 2.3 <sup>p</sup>	13 ± 0.6 <sup>p</sup>	13 ± 1.5 <sup>p</sup>	15 ± 4.2 <sup>p</sup>
6666.7	18 ± 2.8 <sup>p</sup>	21 ± 2.6 <sup>p</sup>	12 ± 0.6 <sup>p</sup>	14 ± 2.5 <sup>p</sup>	11 ± 1.2 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	489 ± 28.6	515 ± 4.9			
Positive Control <sup>4</sup>			319 ± 15.9	197 ± 2.8	323 ± 15.5

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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>	15 ± 1.7
100.0	15 ± 2.2
333.3	13 ± 2.5
1000.0	12 ± 0.3 <sup>P</sup>
3333.3	14 ± 2.1 <sup>P</sup>
6666.7	14 ± 2.3 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	303 ± 4.4

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Test Compound: Pentachloronitrobenzene

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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>	16 ± 4.9	24 ± 2.3	19 ± 1.5	35 ± 5.2	26 ± 0.7
100.0	10 ± 1.9	9 ± 3.0	22 ± 2.6	24 ± 4.2	18 ± 0.0
333.3	10 ± 3.2	11 ± 3.3	17 ± 0.9	31 ± 10.1	26 ± 1.9
1000.0	13 ± 1.9 <sup>P</sup>	15 ± 0.0 <sup>P</sup>	18 ± 1.8 <sup>P</sup>	29 ± 1.8 <sup>P</sup>	19 ± 0.6 <sup>P</sup>
3333.3	10 ± 0.9 <sup>P</sup>	16 ± 1.2 <sup>P</sup>	17 ± 1.0 <sup>P</sup>	26 ± 1.0 <sup>P</sup>	23 ± 5.4 <sup>P</sup>
6666.7	12 ± 2.6 <sup>P</sup>		14 ± 2.0 <sup>P</sup>		18 ± 2.6 <sup>P</sup>
10000.0		19 ± 2.1 <sup>P</sup>		22 ± 3.3 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			225 ± 10.8	284 ± 7.2	422 ± 18.0
Positive Control <sup>5</sup>	317 ± 53.2	136 ± 26.0			

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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>	26 ± 4.8
100.0	15 ± 3.1
333.3	21 ± 5.2
1000.0	20 ± 5.6 <sup>P</sup>
3333.3	33 ± 2.0 <sup>P</sup>
6666.7	
10000.0	26 ± 4.5 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	322 ± 36.7
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Pentachloronitrobenzene

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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>	23 ± 3.5	25 ± 4.8	31 ± 1.9	43 ± 1.2	42 ± 7.0
100.0	28 ± 2.3	36 ± 3.7	34 ± 1.0	45 ± 3.1	36 ± 4.6
333.3	29 ± 2.2	32 ± 6.3	35 ± 8.1	42 ± 5.5	36 ± 4.1
1000.0	26 ± 3.2 <sup>p</sup>	29 ± 4.4 <sup>p</sup>	33 ± 1.3 <sup>p</sup>	43 ± 3.9 <sup>p</sup>	36 ± 2.2 <sup>p</sup>
3333.3	27 ± 2.9 <sup>p</sup>	35 ± 2.6 <sup>p</sup>	33 ± 3.2 <sup>p</sup>	37 ± 3.2 <sup>p</sup>	33 ± 3.5 <sup>p</sup>
6666.7	21 ± 2.6 <sup>p</sup>	32 ± 2.9 <sup>p</sup>	33 ± 5.3 <sup>p</sup>	37 ± 3.6 <sup>p</sup>	45 ± 4.8 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			441 ± 12.7	534 ± 68.7	1044 ± 22.4
Positive Control <sup>6</sup>	635 ± 13.0	706 ± 14.6			



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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>	37 ± 5.8
100.0	36 ± 1.8
333.3	41 ± 0.7
1000.0	36 ± 3.8 <sup>p</sup>
3333.3	36 ± 3.0 <sup>p</sup>
6666.7	35 ± 2.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	474 ± 31.9
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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