

Experiment Number: 466226

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

**G06: Ames Summary Data**

Test Compound: 1,1,1,2-Tetrachloroethane

CAS Number: 630-20-6

Date Report Requested: 09/11/2018

Time Report Requested: 10:36:23

**NTP Study Number:**

466226

**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>	139 ± 7.8	142 ± 4.6	159 ± 4.4	150 ± 5.5	163 ± 8.8
10.0	118 ± 14.4	140 ± 16.6	121 ± 5.3	134 ± 6.2	151 ± 8.4
33.0	122 ± 6.2	130 ± 9.3	132 ± 11.9	146 ± 4.8	169 ± 2.6
100.0	131 ± 4.5	123 ± 4.3	129 ± 9.8	135 ± 4.2	156 ± 4.2
333.0	126 ± 5.2	78 ± 33.3	113 ± 7.9	134 ± 6.0	140 ± 11.5
1000.0	Toxic	3 ± 2.7 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	434 ± 3.7	268 ± 19.3			
Positive Control <sup>3</sup>			735 ± 22.3	742 ± 48.2	1796 ± 23.7

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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>	127 ± 1.0
10.0	123 ± 13.6
33.0	133 ± 8.2
100.0	109 ± 3.2
333.0	113 ± 7.9
1000.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1572 ± 41.5

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	27 ± 0.9	9 ± 1.3	46 ± 3.8	29 ± 1.5	42 ± 4.5
10.0	31 ± 0.3	31 ± 1.2	38 ± 6.2	33 ± 2.0	26 ± 1.2
33.0	27 ± 3.3	24 ± 3.5	39 ± 4.8	25 ± 2.0	30 ± 2.0
100.0	24 ± 3.2	26 ± 4.4	40 ± 3.5	31 ± 2.8	28 ± 1.7
333.0	0 ± 0.0 <sup>s</sup>	10 ± 3.7 <sup>s</sup>	30 ± 2.5	37 ± 4.3	19 ± 2.5
1000.0	0 ± 0.0 <sup>s</sup>	9 ± 9.3 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	427 ± 7.1	175 ± 23.2			
Positive Control <sup>4</sup>			277 ± 7.1	114 ± 6.1	536 ± 12.8

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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>	24 ± 3.5
10.0	29 ± 6.1
33.0	33 ± 2.6
100.0	32 ± 0.9
333.0	25 ± 2.0
1000.0	11 ± 11.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	326 ± 15.2

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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>	5 ± 0.9	7 ± 2.9	10 ± 1.0	12 ± 3.2	5 ± 0.6
10.0	6 ± 1.5	9 ± 4.9	5 ± 0.9	11 ± 2.7	7 ± 2.4
33.0	8 ± 2.0	9 ± 3.5	6 ± 1.2	9 ± 1.9	6 ± 1.5
100.0	12 ± 1.5	6 ± 1.2	9 ± 2.3	13 ± 2.9	6 ± 0.7
333.0	5 ± 0.9	4 ± 2.3	11 ± 1.8	8 ± 0.9	7 ± 1.2
1000.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			167 ± 14.8	197 ± 7.6	500 ± 5.5
Positive Control <sup>5</sup>	172 ± 4.7	109 ± 8.7			

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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>	7 ± 0.7
10.0	7 ± 3.5
33.0	9 ± 2.1
100.0	6 ± 1.2
333.0	4 ± 1.5
1000.0	6 ± 3.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	536 ± 34.9
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>	29 ± 2.2	25 ± 0.3	42 ± 1.0	30 ± 3.5	37 ± 3.7
10.0	21 ± 2.2	23 ± 2.1	37 ± 2.7	30 ± 1.7	35 ± 3.5
33.0	23 ± 7.8	18 ± 1.7	42 ± 3.5	33 ± 3.8	30 ± 2.0
100.0	18 ± 0.5	23 ± 3.4	42 ± 4.9	35 ± 3.3	38 ± 2.9
333.0	16 ± 0.6	14 ± 7.4	36 ± 4.2	32 ± 5.0	33 ± 4.7
1000.0	Toxic	1 ± 1.3 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			563 ± 13.9	556 ± 36.2	1514 ± 107.5
Positive Control <sup>6</sup>	724 ± 7.1	793 ± 25.9			



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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>	32 ± 0.9
10.0	28 ± 1.5
33.0	35 ± 2.1
100.0	28 ± 0.6
333.0	37 ± 5.6
1000.0	13 ± 13.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	1385 ± 100.5
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: 95% Ethanol

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

s: Slight Toxicity

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