

Experiment Number: 048912

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,3,5,6-Tetrachloronitrobenzene

CAS Number: 117-18-0

Date Report Requested: 09/15/2018

Time Report Requested: 01:57:54

**NTP Study Number:**

048912

**Study Result:**

Weakly Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	168 ± 7.8	142 ± 9.5	129 ± 2.7	176 ± 7.5	139 ± 6.9
0.3		131 ± 6.5	120 ± 8.4		
1.0	157 ± 4.9	133 ± 4.1	101 ± 4.7		
3.3	170 ± 7.3	129 ± 3.4	122 ± 1.9	157 ± 10.7	135 ± 8.1
10.0	177 ± 4.4 <sup>s</sup>	137 ± 6.2 <sup>s</sup>	120 ± 1.5	163 ± 1.2	
33.0	154 ± 4.0 <sup>s</sup>	135 ± 8.3 <sup>s</sup>	129 ± 5.8	160 ± 3.3	134 ± 6.1
50.0					154 ± 6.1
75.0					
100.0	150 ± 3.2 <sup>s</sup>			154 ± 8.4	111 ± 5.2
150.0					
200.0					116 ± 9.4 <sup>s</sup>
333.0				153 ± 11.1 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				1888 ± 22.7	154 ± 5.7
Positive Control <sup>4</sup>	2107 ± 46.9	2354 ± 30.7	2203 ± 192.0		

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	113 ± 10.5	91 ± 9.6	81 ± 4.3	131 ± 6.2	127 ± 5.3
0.3					
1.0					
3.3	118 ± 10.7	87 ± 5.2	114 ± 7.0	126 ± 9.4	105 ± 1.8
10.0				145 ± 7.7	
33.0	113 ± 12.8	123 ± 0.9	129 ± 3.8	182 ± 9.4	135 ± 5.4
50.0	125 ± 2.3	128 ± 7.1	125 ± 2.4		167 ± 13.3
75.0			122 ± 10.0		
100.0	129 ± 1.0	117 ± 5.5 <sup>s</sup>	128 ± 5.3 <sup>s</sup>	221 ± 10.7 <sup>s</sup>	188 ± 7.2 <sup>s</sup>
150.0			79 ± 3.5 <sup>s</sup>		
200.0	138 ± 5.7 <sup>s</sup>	109 ± 11.3 <sup>s</sup>	128 ± 9.6 <sup>s</sup>		137 ± 4.5 <sup>s</sup>
333.0				165 ± 36.6 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>2</sup>				2268 ± 121.9	3003 ± 105.1
Positive Control <sup>3</sup>	118 ± 11.2	1445 ± 166.4	2005 ± 54.4		
Positive Control <sup>4</sup>					

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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>	74 ± 6.7
0.3	
1.0	
3.3	72 ± 4.1
10.0	
33.0	116 ± 4.4
50.0	147 ± 2.7
75.0	183 ± 8.4
100.0	171 ± 1.8 <sup>s</sup>
150.0	130 ± 7.8 <sup>s</sup>
200.0	130 ± 7.0 <sup>s</sup>
333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	2407 ± 209.4
Positive Control <sup>3</sup>	
Positive Control <sup>4</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>	45 ± 2.0	17 ± 3.2	14 ± 2.1
1.0	33 ± 4.3		
3.3	43 ± 1.5	16 ± 1.5	11 ± 2.3
10.0	37 ± 2.4 <sup>s</sup>	16 ± 0.6	14 ± 2.3
33.0	29 ± 1.5 <sup>s</sup>	12 ± 2.1	15 ± 1.3
100.0	33 ± 2.4 <sup>s</sup>	20 ± 1.2	14 ± 2.1 <sup>s</sup>
333.0		12 ± 1.0 <sup>s</sup>	13 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			215 ± 10.5
Positive Control <sup>3</sup>		149 ± 19.0	
Positive Control <sup>4</sup>	1472 ± 24.5		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.7	13 ± 1.3	10 ± 0.9
1.0	11 ± 1.0		
3.3	11 ± 3.5	14 ± 5.8	13 ± 1.2
10.0	13 ± 1.5 <sup>s</sup>	16 ± 1.7	12 ± 0.3
33.0	10 ± 0.6 <sup>s</sup>	15 ± 1.7	13 ± 3.2
100.0	9 ± 1.5 <sup>s</sup>	12 ± 1.2	9 ± 2.0 <sup>s</sup>
333.0		10 ± 2.5 <sup>s</sup>	8 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			284 ± 27.1
Positive Control <sup>3</sup>		148 ± 9.5	
Positive Control <sup>5</sup>	343 ± 75.3		

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 1.2	38 ± 7.9	40 ± 3.9
1.0	33 ± 2.9		
3.3	31 ± 3.0	36 ± 2.5	34 ± 1.8
10.0	27 ± 2.4	42 ± 4.1	36 ± 1.2
33.0	31 ± 1.0	48 ± 0.9	45 ± 0.9
100.0	23 ± 1.5 <sup>s</sup>	42 ± 0.6	50 ± 0.9
333.0		38 ± 1.2 <sup>s</sup>	38 ± 5.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			2139 ± 108.7
Positive Control <sup>3</sup>		1332 ± 49.7	
Positive Control <sup>6</sup>	2362 ± 92.5		

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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 \*\***