

Experiment Number: A71232

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

**G06: Ames Summary Data**

Test Compound: **3,3',4,4'-Tetrachloroazobenzene**

CAS Number: **14047-09-7**

Date Report Requested: **09/17/2018**

Time Report Requested: **18:29:57**

**NTP Study Number:**

A71232

**Study Result:**

Positive

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CAS Number: 14047-09-7

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	101 ± 5.3	97 ± 3.8	114 ± 11.7	100 ± 3.5	93 ± 4.2
1.0		104 ± 4.1		93 ± 4.8	
3.0		90 ± 3.2		94 ± 5.0	
10.0		93 ± 4.7		91 ± 6.1	
33.0		93 ± 3.5		112 ± 6.4	
100.0	80 ± 5.8	103 ± 3.7 <sup>P</sup>	147 ± 9.5 <sup>P</sup>	104 ± 2.0 <sup>P</sup>	110 ± 5.0 <sup>P</sup>
333.0	69 ± 2.5		139 ± 16.3 <sup>P</sup>		98 ± 6.2 <sup>P</sup>
1000.0	74 ± 0.7		101 ± 7.4 <sup>P</sup>		87 ± 4.5 <sup>P</sup>
3333.0	69 ± 3.8 <sup>P</sup>		108 ± 6.8 <sup>P</sup>		95 ± 2.8 <sup>P</sup>
10000.0	95 ± 10.1 <sup>P</sup>		127 ± 11.3 <sup>P</sup>		106 ± 1.8 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	456 ± 26.4	635 ± 32.7			
Positive Control <sup>3</sup>			520 ± 4.4	594 ± 7.8	779 ± 4.5

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	113 ± 3.5
1.0	108 ± 5.5
3.0	97 ± 5.1
10.0	99 ± 5.8
33.0	98 ± 4.0
100.0	109 ± 4.0 <sup>p</sup>
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	843 ± 8.1

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 2.8	18 ± 2.3	20 ± 6.5
100.0	13 ± 1.2	27 ± 2.3	15 ± 1.8
333.0	9 ± 1.3	21 ± 2.0	15 ± 3.7
1000.0	13 ± 0.9	21 ± 1.5	20 ± 3.7
3333.0	9 ± 0.6 <sup>P</sup>	16 ± 2.0 <sup>P</sup>	18 ± 0.3 <sup>P</sup>
10000.0	8 ± 0.3 <sup>P</sup>	21 ± 0.3 <sup>P</sup>	16 ± 1.8 <sup>P</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>		52 ± 0.9	396 ± 45.1
Positive Control <sup>2</sup>	538 ± 6.1		

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Strain: TA1537

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Dose (ug/Plate)	With 30% Rat S9
Vehicle Control <sup>1</sup>	6 ± 0.9
10.0	3 ± 0.9
25.0	5 ± 0.6
50.0	4 ± 1.5
75.0	5 ± 1.2 <sup>p</sup>
100.0	3 ± 0.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	407 ± 9.2
Positive Control <sup>5</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	89 ± 4.7	200 ± 3.4	131 ± 7.1	153 ± 3.5	150 ± 11.7
10.0				144 ± 4.8	
25.0				172 ± 3.3	
50.0			248 ± 14.5	217 ± 14.6	
75.0			268 ± 23.1	304 ± 22.9	
100.0	81 ± 4.5	368 ± 12.3	206 ± 3.2	290 ± 15.1	186 ± 5.0
200.0			120 ± 9.4		
300.0			170 ± 13.5		
333.0	92 ± 6.4	155 ± 9.1			169 ± 8.2
1000.0	83 ± 10.3	232 ± 38.9			180 ± 7.7
3333.0	85 ± 4.7 <sup>P</sup>	177 ± 17.0 <sup>P</sup>			159 ± 5.7 <sup>P</sup>
10000.0	79 ± 3.5 <sup>P</sup>	182 ± 10.6 <sup>P</sup>			160 ± 3.9 <sup>P</sup>
Trial Summary	Negative	Equivocal	Positive	Positive	Negative
Positive Control <sup>3</sup>					815 ± 48.5
Positive Control <sup>4</sup>		520 ± 31.0	410 ± 7.0	458 ± 35.3	
Positive Control <sup>5</sup>	253 ± 11.3				

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 2.9	32 ± 2.1	31 ± 2.6	34 ± 4.1	41 ± 4.7
1.0		22 ± 2.1		33 ± 2.6	
3.0		33 ± 2.6		35 ± 3.2	
10.0		19 ± 3.0		31 ± 4.3	
33.0		26 ± 3.7		35 ± 3.2	
100.0	18 ± 3.8 <sup>p</sup>	33 ± 5.1 <sup>p</sup>	39 ± 2.7 <sup>p</sup>	25 ± 3.2 <sup>p</sup>	40 ± 1.5 <sup>p</sup>
333.0	22 ± 0.9 <sup>p</sup>		37 ± 2.1 <sup>p</sup>		40 ± 1.5 <sup>p</sup>
1000.0	19 ± 0.3 <sup>p</sup>		40 ± 3.4 <sup>p</sup>		36 ± 2.5 <sup>p</sup>
3333.0	21 ± 2.3 <sup>p</sup>		43 ± 1.8 <sup>p</sup>		40 ± 3.2 <sup>p</sup>
10000.0	18 ± 2.0 <sup>p</sup>		29 ± 3.8 <sup>p</sup>		39 ± 1.8 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			224 ± 5.0	349 ± 10.1	887 ± 3.9
Positive Control <sup>6</sup>	148 ± 24.8	211 ± 7.3			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	28 ± 3.4
1.0	32 ± 2.6
3.0	28 ± 3.8
10.0	31 ± 3.8
33.0	31 ± 3.8
100.0	28 ± 3.3 <sup>p</sup>
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	805 ± 16.2
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: 2.0 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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