

Experiment Number: 818679

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,2',4'-Trichloroacetophenone

CAS Number: 4252-78-2

Date Report Requested: 09/15/2018

Time Report Requested: 14:38:00

**NTP Study Number:**

818679

**Study Result:**

Positive

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Test Compound: 2,2',4'-Trichloroacetophenone  
CAS Number: 4252-78-2

Date Report Requested: 09/15/2018

Time Report Requested: 14:38:00

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	116 ± 10.2	107 ± 12.5	168 ± 5.2	132 ± 4.5	174 ± 3.8
1.0		129 ± 6.1			
1.5	114 ± 3.8				
5.0	136 ± 7.3	113 ± 21.1			
10.0	177 ± 7.2	142 ± 10.4			
15.0	208 ± 5.5	150 ± 5.3			
20.0		130 ± 4.8 <sup>s</sup>			
23.0	139 ± 9.6				
33.0					192 ± 12.5
50.0			144 ± 9.2	127 ± 4.2	
75.0				136 ± 6.2	
100.0				145 ± 6.1	184 ± 8.4
125.0					
150.0			247 ± 40.8	128 ± 5.5	187 ± 4.4
175.0					
200.0				256 ± 8.3	290 ± 3.1
250.0					
333.0					13 ± 1.9 <sup>s</sup>
500.0			Toxic		
1500.0			0 ± 0.0 <sup>x</sup>		
5000.0			0 ± 0.0 <sup>x</sup>		
Trial Summary	Weakly Positive	Negative	Equivocal	Equivocal	Equivocal
Positive Control <sup>2</sup>	626 ± 20.9	511 ± 27.0			
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>			1039 ± 57.6	694 ± 20.5	1063 ± 21.1

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	148 ± 13.0	161 ± 13.5	144 ± 4.6	100 ± 7.7	132 ± 7.5
1.0					
1.5					
5.0					
10.0		120 ± 10.1			
15.0					
20.0					
23.0					
33.0	147 ± 8.8	143 ± 28.6			154 ± 6.6
50.0			174 ± 7.4	132 ± 3.5	
75.0				138 ± 6.7	
100.0	153 ± 4.7	115 ± 14.2		164 ± 3.8	253 ± 6.2
125.0		127 ± 3.9			
150.0	399 ± 13.9	173 ± 14.3	331 ± 19.1	182 ± 6.1	129 ± 3.0 <sup>S</sup>
175.0	94 ± 34.5 <sup>S</sup>	141 ± 34.2 <sup>S</sup>			2 ± 1.2 <sup>S</sup>
200.0	41 ± 13.6 <sup>S</sup>	33 ± 24.0 <sup>S</sup>		223 ± 17.9	0 ± 0.0 <sup>S</sup>
250.0	0 ± 0.0 <sup>S</sup>				Toxic
333.0					
500.0			0 ± 0.0 <sup>X</sup>		
1500.0			0 ± 0.0 <sup>X</sup>		
5000.0			0 ± 0.0 <sup>X</sup>		
Trial Summary	Equivocal	Negative	Positive	Positive	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			615 ± 14.8	385 ± 3.8	807 ± 26.6
Positive Control <sup>4</sup>	1105 ± 40.2	1082 ± 64.0			

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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>	131 ± 5.9
1.0	
1.5	
5.0	
10.0	141 ± 0.6
15.0	
20.0	
23.0	
33.0	177 ± 9.8
50.0	
75.0	
100.0	231 ± 14.7
125.0	343 ± 11.9
150.0	289 ± 5.9
175.0	2 ± 0.3 <sup>s</sup>
200.0	0 ± 0.0 <sup>s</sup>
250.0	
333.0	
500.0	
1500.0	
5000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	766 ± 14.9
Positive Control <sup>4</sup>	

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## Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 3.3	12 ± 1.7	12 ± 0.9	8 ± 0.9
10.0		16 ± 0.6		13 ± 1.9
33.0	11 ± 3.5	13 ± 5.2	11 ± 1.2	13 ± 3.8
100.0	14 ± 3.0	15 ± 2.4	10 ± 2.3	13 ± 0.9
125.0		13 ± 0.7		12 ± 2.7
150.0	12 ± 2.1	12 ± 2.0	6 ± 2.3	10 ± 1.5
175.0	5 ± 0.9 <sup>s</sup>	9 ± 1.0	2 ± 2.3 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
200.0	7 ± 5.2 <sup>s</sup>	3 ± 1.2 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
250.0	4 ± 1.7 <sup>s</sup>		Toxic	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			75 ± 3.8	85 ± 12.7
Positive Control <sup>4</sup>	158 ± 2.1	159 ± 3.8		

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**Strain: TA1538**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 1.5
33.0	10 ± 1.7
100.0	10 ± 2.0
150.0	7 ± 0.9
200.0	10 ± 0.9
333.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	490 ± 39.5

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Date Report Requested: 09/15/2018

Time Report Requested: 14:38:00

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	20 ± 1.8	16 ± 4.5	21 ± 0.3	24 ± 2.8	39 ± 1.2
1.0		13 ± 2.3			
1.5	22 ± 2.0				
5.0	22 ± 1.3	16 ± 2.9			
10.0	35 ± 2.1	27 ± 3.3			
15.0	43 ± 4.2	35 ± 3.2			
20.0		22 ± 2.5 <sup>s</sup>			
23.0	0 ± 0.0 <sup>s</sup>				
33.0					41 ± 1.8
50.0			24 ± 2.7	22 ± 2.3	
75.0				24 ± 1.2	
100.0				25 ± 0.7	41 ± 2.3
150.0			33 ± 2.0	29 ± 2.3	50 ± 1.8
200.0				52 ± 2.0	58 ± 5.3
333.0					1 ± 0.7 <sup>s</sup>
500.0			0 ± 0.0 <sup>s</sup>		
1500.0			Toxic		
5000.0			Toxic		
Trial Summary	Weakly Positive	Weakly Positive	Negative	Equivocal	Equivocal
Positive Control <sup>5</sup>	254 ± 14.7	255 ± 2.1			
Positive Control <sup>3</sup>			491 ± 27.3	346 ± 58.9	334 ± 12.9

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Test Compound: 2,2',4'-Trichloroacetophenone

Time Report Requested: 14:38:00

CAS Number: 4252-78-2

## Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 5.6	24 ± 1.2
1.0		
1.5		
5.0		
10.0		
15.0		
20.0		
23.0		
33.0		
50.0	29 ± 1.5	22 ± 3.7
75.0		28 ± 2.8
100.0		27 ± 1.5
150.0	55 ± 3.8	29 ± 1.8
200.0		40 ± 3.2
333.0		
500.0	0 ± 0.0 <sup>P</sup>	
1500.0	0 ± 0.0 <sup>P</sup>	
5000.0	0 ± 0.0 <sup>P</sup>	
Trial Summary	Equivocal	Equivocal
Positive Control <sup>5</sup>		
Positive Control <sup>3</sup>	411 ± 15.7	398 ± 18.2



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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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