

Experiment Number: 574359

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

**G06: Ames Summary Data**

Test Compound: **Trichloroacetonitrile**

CAS Number: **545-06-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **05:25:57**

**NTP Study Number:**

574359

**Study Result:**

Weakly Positive

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## G06: Ames Summary Data

Test Compound: Trichloroacetonitrile

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Date Report Requested: 09/14/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	106 ± 3.1	159 ± 5.1	89 ± 2.6	99 ± 2.3	149 ± 5.7
1.0				84 ± 7.6	
3.3				90 ± 4.7	
10.0		165 ± 3.1	83 ± 9.2	98 ± 3.5	
33.0	94 ± 3.1	172 ± 10.0	84 ± 6.4	129 ± 6.5	
100.0	98 ± 6.0	182 ± 7.6	78 ± 3.5	122 ± 6.7	168 ± 5.7
333.0	109 ± 4.5	174 ± 5.9	Toxic	114 ± 21.2	180 ± 7.8
1000.0	59 ± 4.6	160 ± 6.2	Toxic	80 ± 13.6	214 ± 4.5
3333.0	Toxic				242 ± 22.9
10000.0					Toxic
Trial Summary	Negative	Negative	Negative	Equivocal	Weakly Positive
Positive Control <sup>2</sup>					1432 ± 81.7
Positive Control <sup>3</sup>	834 ± 27.2	1006 ± 29.9	1504 ± 41.3	1424 ± 96.2	

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	187 ± 2.9	287 ± 9.2	147 ± 7.7	204 ± 4.4	103 ± 9.6
1.0					
3.3					
10.0					
33.0	209 ± 14.6	226 ± 9.0		218 ± 7.7	93 ± 8.6
100.0	218 ± 11.7	244 ± 9.5	198 ± 8.7	205 ± 14.4	65 ± 9.3
333.0	210 ± 12.9	250 ± 12.3	207 ± 9.2	255 ± 4.8	125 ± 5.8
1000.0	191 ± 16.2	281 ± 16.5	258 ± 30.9	264 ± 11.2	136 ± 8.2
3333.0	152 ± 5.2	121 ± 14.3	362 ± 28.1	167 ± 17.0	Toxic
10000.0			97 ± 22.9		
Trial Summary	Negative	Negative	Positive	Equivocal	Equivocal
Positive Control <sup>2</sup>	1551 ± 174.0	1266 ± 20.0	696 ± 51.3	1807 ± 159.5	1919 ± 139.9
Positive Control <sup>3</sup>					

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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>	9 ± 1.2	7 ± 1.5	11 ± 0.9	15 ± 2.6	10 ± 0.3
33.0	9 ± 1.2	9 ± 0.3		12 ± 0.9	
100.0	9 ± 1.2	7 ± 1.5	13 ± 2.0	15 ± 1.2	11 ± 2.9
333.0	9 ± 2.6	9 ± 1.0	12 ± 0.9	13 ± 1.9	14 ± 2.3
1000.0	10 ± 0.7	6 ± 0.3	10 ± 0.3	15 ± 3.8	14 ± 1.2
3333.0	4 ± 1.9	4 ± 0.7	3 ± 1.2	6 ± 1.0	2 ± 0.7
10000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			145 ± 21.3	199 ± 14.8	339 ± 30.5
Positive Control <sup>3</sup>	771 ± 28.3	798 ± 51.2			

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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>	8 ± 1.7
33.0	8 ± 3.2
100.0	7 ± 0.9
333.0	11 ± 2.1
1000.0	8 ± 1.7
3333.0	6 ± 2.2
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	296 ± 15.6
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Trichloroacetonitrile

CAS Number: 545-06-2

Date Report Requested: 09/14/2018

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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 ± 0.7	5 ± 1.7	9 ± 2.9	7 ± 1.8	11 ± 1.0
3.3		5 ± 2.2			
10.0		5 ± 1.8		6 ± 1.2	
33.0	7 ± 0.9	2 ± 0.6		4 ± 1.9	
100.0	4 ± 0.9	2 ± 0.3	11 ± 1.2	5 ± 1.9	11 ± 3.2
333.0	4 ± 0.7	3 ± 0.7	9 ± 2.0	7 ± 1.7	7 ± 1.0
1000.0	1 ± 0.0		7 ± 0.6	7 ± 2.7	2 ± 0.7
3333.0	Toxic		3 ± 1.2		1 ± 0.6
10000.0			0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			261 ± 42.8	282 ± 15.1	308 ± 25.0
Positive Control <sup>5</sup>	440 ± 42.9	663 ± 96.0			

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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>	6 ± 1.5
3.3	
10.0	7 ± 0.9
33.0	7 ± 2.4
100.0	6 ± 0.7
333.0	7 ± 1.5
1000.0	7 ± 0.7
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	240 ± 5.7
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Trichloroacetonitrile

CAS Number: 545-06-2

Date Report Requested: 09/14/2018

Time Report Requested: 05:25:57

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	12 ± 0.6	13 ± 2.1	17 ± 4.2	14 ± 2.0	15 ± 1.2
10.0		15 ± 1.2			15 ± 2.4
33.0	15 ± 1.7	16 ± 2.1			14 ± 3.2
67.0			24 ± 1.5		
100.0	16 ± 0.9	20 ± 3.2	12 ± 1.2	18 ± 3.6	16 ± 0.9
167.0			20 ± 1.5		
333.0	14 ± 1.8	30 ± 3.1	20 ± 2.7	20 ± 2.3	14 ± 2.0
667.0			13 ± 2.2		
1000.0	9 ± 1.5	19 ± 3.9		23 ± 3.0	19 ± 2.7
1667.0					
3333.0	Toxic			2 ± 0.7	
10000.0				Toxic	
Trial Summary	Negative	Positive	Negative	Weakly Positive	Negative
Positive Control <sup>2</sup>				873 ± 54.0	1036 ± 63.2
Positive Control <sup>6</sup>	223 ± 15.3	177 ± 12.7	162 ± 7.6		

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## G06: Ames Summary Data

Test Compound: Trichloroacetonitrile

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## Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 2.3	20 ± 2.2	26 ± 5.0
10.0			23 ± 3.0
33.0			15 ± 0.9
67.0			
100.0		17 ± 1.3	23 ± 1.5
167.0	27 ± 5.6		
333.0	27 ± 5.0	18 ± 2.6	22 ± 3.8
667.0	27 ± 2.2		
1000.0	35 ± 7.7	22 ± 3.1	14 ± 0.7
1667.0	Toxic		
3333.0		4 ± 0.6	
10000.0		Toxic	
Trial Summary	Equivocal	Negative	Negative
Positive Control <sup>2</sup>	769 ± 37.0	527 ± 61.9	1427 ± 112.5
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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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