

Experiment Number: A38940

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

G06: Ames Summary Data

Test Compound: 1,1,2-Trichloroethane

CAS Number: 79-00-5

Date Report Requested: 09/16/2018

Time Report Requested: 21:12:50

NTP Study Number:

A38940

Study Result:

Equivocal

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Test Compound: 1,1,2-Trichloroethane

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Date Report Requested: 09/16/2018

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Strain: TA100

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	106 ± 5.1	113 ± 3.8	132 ± 3.7	109 ± 4.1	126 ± 3.5
0.003	114 ± 3.0	114 ± 2.6	133 ± 3.1	98 ± 5.6	126 ± 3.3
0.01	102 ± 9.0	114 ± 3.5	126 ± 3.9	108 ± 12.3	125 ± 5.5
0.03	109 ± 3.8	109 ± 1.5	129 ± 6.9	108 ± 4.6	127 ± 4.4
0.1	93 ± 8.3	109 ± 3.3	127 ± 5.0	106 ± 4.9	127 ± 11.0
0.3	89 ± 6.4 ^s	72 ± 9.1 ^s	102 ± 3.4	93 ± 12.7 ^s	95 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					567 ± 18.3
Positive Control ³			449 ± 22.9		
Positive Control ⁴				769 ± 16.6	
Positive Control ⁵	886 ± 29.3	849 ± 21.4			

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Strain: TA100

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	106 ± 5.0
0.003	110 ± 4.6
0.01	109 ± 6.2
0.03	106 ± 5.9
0.1	92 ± 6.2
0.3	30 ± 7.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	795 ± 21.7
Positive Control ⁵	

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Strain: TA1535

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.2	14 ± 2.6	13 ± 1.5	15 ± 1.5	15 ± 1.5
0.003	14 ± 0.6	11 ± 0.7	17 ± 1.2	12 ± 1.5	16 ± 0.7
0.01	13 ± 1.3	12 ± 1.7	14 ± 2.1	16 ± 6.3	15 ± 1.5
0.03	10 ± 0.3	10 ± 0.7	12 ± 2.2	13 ± 3.0	11 ± 1.0
0.1	9 ± 0.3	11 ± 2.1	14 ± 2.3	12 ± 2.3	15 ± 3.1
0.3	11 ± 0.7	8 ± 0.6	7 ± 0.6	13 ± 3.0	8 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					99 ± 7.5
Positive Control ⁴			86 ± 7.6		
Positive Control ⁵	864 ± 15.9	784 ± 41.7			
Positive Control ⁶				108 ± 8.0	

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Strain: TA1535

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	19 ± 1.2
0.003	20 ± 0.7
0.01	19 ± 1.5
0.03	15 ± 2.6
0.1	15 ± 1.3
0.3	13 ± 2.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	136 ± 4.7
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	136 ± 7.5	109 ± 0.3	191 ± 3.0	139 ± 8.7	159 ± 5.5
0.003	132 ± 16.8	133 ± 3.5		122 ± 3.0	164 ± 5.4
0.006		127 ± 8.7			
0.01	143 ± 9.0	130 ± 7.4		135 ± 4.4	181 ± 2.8
0.03	138 ± 18.9	132 ± 8.0		133 ± 3.3	158 ± 5.8
0.1	156 ± 4.6	133 ± 9.6	197 ± 10.9	141 ± 5.9	170 ± 2.9
0.2			199 ± 6.2		
0.3	182 ± 15.4	214 ± 22.2	235 ± 5.5	149 ± 0.6	163 ± 17.8
0.4			125 ± 13.0 ^s		
0.5			Toxic		
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Negative
Positive Control ²					
Positive Control ³					583 ± 23.5
Positive Control ⁴					
Positive Control ⁷	512 ± 8.1	635 ± 30.6	549 ± 26.0	526 ± 27.8	

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Strain: TA97

Dose (mL/Chamber)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	164 ± 5.5	124 ± 9.2	149 ± 7.6	187 ± 5.6	170 ± 5.0
0.003	142 ± 3.8	117 ± 4.4	127 ± 3.9	172 ± 3.0	167 ± 16.5
0.006		105 ± 5.1	118 ± 7.3		
0.01	186 ± 13.2	129 ± 12.5	135 ± 5.8	171 ± 8.5	244 ± 9.5
0.03	152 ± 6.9	119 ± 2.7	127 ± 3.8	188 ± 5.8	242 ± 15.5
0.1	175 ± 16.9	137 ± 9.0	126 ± 11.4	200 ± 5.8	253 ± 8.5
0.2					
0.3	158 ± 11.9	205 ± 14.0	186 ± 2.3	200 ± 0.7	176 ± 13.0
0.4					
0.5					
Trial Summary	Negative	Equivocal	Negative	Negative	Weakly Positive
Positive Control ²		803 ± 39.9	791 ± 41.4	629 ± 13.9	
Positive Control ³					589 ± 22.5
Positive Control ⁴	548 ± 17.7				
Positive Control ⁷					

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Strain: TA97

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	120 ± 7.2
0.003	118 ± 2.7
0.006	107 ± 3.3
0.01	91 ± 3.1
0.03	103 ± 8.1
0.1	110 ± 7.9
0.2	
0.3	70 ± 9.6 ^s
0.4	
0.5	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	705 ± 22.7
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.5	14 ± 0.9	21 ± 1.5	24 ± 1.5	23 ± 2.1
0.003	22 ± 0.9	12 ± 0.9	16 ± 1.3	22 ± 2.2	19 ± 0.0
0.01	25 ± 0.9	16 ± 3.0	21 ± 1.7	24 ± 1.5	22 ± 1.0
0.03	26 ± 2.4	15 ± 2.3	21 ± 1.5	29 ± 4.9	20 ± 0.9
0.1	28 ± 1.9	16 ± 1.7	21 ± 2.6	21 ± 2.0	19 ± 0.3
0.3	15 ± 2.1 ^s	9 ± 1.7 ^s	10 ± 0.3	13 ± 0.7 ^s	12 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					549 ± 39.3
Positive Control ³			383 ± 30.3		
Positive Control ⁸	463 ± 14.2	492 ± 2.0			
Positive Control ⁴				466 ± 16.2	

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Strain: TA98

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	28 ± 1.8
0.003	22 ± 3.7
0.01	20 ± 2.3
0.03	23 ± 3.8
0.1	18 ± 4.3
0.3	13 ± 1.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	556 ± 15.5
Positive Control ⁸	
Positive Control ⁴	

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LEGEND

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: Acetone

2: 1.0 mL/Chamber 2-Aminoanthracene

3: 2.0 mL/Chamber 2-Aminoanthracene

4: 5.0 mL/Chamber 2-Aminoanthracene

5: 5.0 mL/Chamber Sodium Azide

6: 10.0 mL/Chamber 2-Aminoanthracene

7: 50.0 mL/Chamber 9-Aminoacridine

8: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****