

Experiment Number: 403999

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: 16:57:17

NTP Study Number:

403999

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	140 ± 2.2	124 ± 3.2	120 ± 10.9	106 ± 9.0	127 ± 10.5
3.3	135 ± 7.3		130 ± 10.2		
10.0	148 ± 8.1	136 ± 10.3	148 ± 16.1	63 ± 31.5	135 ± 1.7
33.0	174 ± 17.5	170 ± 2.3	139 ± 12.7	132 ± 5.1	134 ± 8.7
67.0		172 ± 20.6		86 ± 43.2	
100.0	186 ± 1.9	190 ± 11.5	135 ± 5.3	141 ± 13.6	182 ± 5.5
150.0		181 ± 8.7		159 ± 22.6	
200.0		206 ± 6.6		115 ± 4.2 ^s	
250.0		227 ± 10.5 ^s		65 ± 32.7 ^s	
333.0	235 ± 34.9 ^s	183 ± 17.8 ^s	149 ± 3.8	54 ± 2.3 ^s	200 ± 5.8
400.0					
500.0					
1000.0			156 ± 6.2		110 ± 10.3 ^s
3333.0			170 ± 13.7		
10000.0			136 ± 2.2 ^s		
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³					
Positive Control ⁴					922 ± 19.7
Positive Control ⁵	973 ± 26.0	1274 ± 34.0		496 ± 16.1	
Positive Control ⁶			1040 ± 25.6		

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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 ¹	127 ± 2.5	123 ± 3.3	113 ± 11.7	144 ± 2.8	115 ± 6.7
3.3		118 ± 8.1			
10.0		125 ± 10.2		149 ± 10.7	
33.0	142 ± 8.2	127 ± 15.0	150 ± 3.2	149 ± 3.5	136 ± 8.8
67.0					
100.0	149 ± 7.7	129 ± 10.7	162 ± 13.3	158 ± 2.0	163 ± 1.9
150.0					
200.0	164 ± 5.6		149 ± 22.9		176 ± 7.5
250.0					
333.0	175 ± 5.0	131 ± 2.0	167 ± 6.1	186 ± 1.2	182 ± 9.0
400.0	185 ± 7.2		182 ± 8.6		179 ± 7.5
500.0	189 ± 8.0		159 ± 13.1		179 ± 18.2 ^s
1000.0	132 ± 4.5 ^s	140 ± 6.2	81 ± 1.7 ^s	120 ± 9.1 ^s	140 ± 9.0 ^s
3333.0		142 ± 7.0			
10000.0		103 ± 8.7 ^s			
Trial Summary	Weakly Positive	Negative	Weakly Positive	Equivocal	Weakly Positive
Positive Control ²				1146 ± 36.0	1166 ± 83.3
Positive Control ³		2447 ± 64.4			
Positive Control ⁴	845 ± 68.0		1283 ± 18.7		
Positive Control ⁵					
Positive Control ⁶					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	127 ± 4.8	85 ± 42.4
3.3	123 ± 4.1	
10.0	126 ± 2.8	
33.0	126 ± 5.0	134 ± 5.9
67.0		
100.0	136 ± 4.2	182 ± 8.9
150.0		
200.0		158 ± 5.9
250.0		
333.0	130 ± 3.2	169 ± 10.3
400.0		184 ± 10.4
500.0		163 ± 5.8
1000.0	149 ± 3.8	86 ± 9.0 ^s
3333.0	169 ± 5.6	
10000.0	164 ± 4.8 ^s	
Trial Summary	Equivocal	Equivocal
Positive Control ²		1350 ± 26.6
Positive Control ³	2707 ± 65.9	
Positive Control ⁴		
Positive Control ⁵		
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.3	14 ± 2.6	12 ± 1.8
3.3	27 ± 2.4		
10.0	24 ± 3.8	11 ± 0.6	11 ± 2.2
33.0	17 ± 2.2	15 ± 1.5	12 ± 1.5
100.0	19 ± 4.3	12 ± 0.7	18 ± 0.7
333.0	14 ± 0.9 ^s	17 ± 2.7	17 ± 1.0
1000.0		14 ± 1.9 ^s	17 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			77 ± 6.6
Positive Control ⁴		59 ± 9.5	
Positive Control ⁵	826 ± 25.4		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.5	5 ± 2.0	5 ± 1.5
3.3	2 ± 0.0		
10.0	5 ± 1.2	5 ± 0.9	8 ± 1.2
33.0	3 ± 1.2	4 ± 0.6	7 ± 0.7
100.0	7 ± 1.3	7 ± 0.7	7 ± 1.2
333.0	2 ± 0.7 ^s	5 ± 0.9	8 ± 1.5
1000.0		3 ± 0.3 ^s	5 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			86 ± 0.6
Positive Control ⁴		59 ± 6.5	
Positive Control ⁷	412 ± 28.9		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.6	21 ± 1.3	24 ± 2.0	32 ± 3.0	24 ± 1.2
3.3	14 ± 0.3				
10.0	21 ± 4.5	18 ± 1.7	23 ± 2.9		29 ± 0.6
33.0	27 ± 1.0	30 ± 6.1	26 ± 3.5	32 ± 2.5	29 ± 2.4
67.0		30 ± 3.2			
100.0	37 ± 3.6	29 ± 1.2	30 ± 2.1	30 ± 4.0	32 ± 2.9
150.0		24 ± 3.8 ^s			
200.0		19 ± 2.9 ^s		34 ± 7.1	
250.0		22 ± 3.2 ^s			
333.0	12 ± 0.6 ^s	11 ± 2.0 ^s	30 ± 3.8	32 ± 5.0	24 ± 5.4
400.0				29 ± 0.9	
500.0				30 ± 1.3 ^s	
1000.0			17 ± 2.0 ^s	21 ± 0.9 ^s	19 ± 5.9 ^s
Trial Summary	Weakly Positive	Negative	Negative	Negative	Negative
Positive Control ²					1141 ± 46.8
Positive Control ⁴			658 ± 12.8	683 ± 28.8	
Positive Control ⁸	1242 ± 14.5	1586 ± 94.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.5
3.3	
10.0	
33.0	31 ± 1.5
67.0	
100.0	35 ± 2.0
150.0	
200.0	33 ± 4.9
250.0	
333.0	40 ± 0.3
400.0	24 ± 3.6 ^s
500.0	33 ± 3.2 ^s
1000.0	22 ± 1.3 ^s
Trial Summary	Equivocal
Positive Control ²	1131 ± 65.0
Positive Control ⁴	
Positive Control ⁸	

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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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.5 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 60.0 ug/Plate Solvent

7: 80.0 ug/Plate 9-Aminoacridine

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **