

Experiment Number: 600157

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2,3-Trichloropropane

CAS Number: 96-18-4

Date Report Requested: 09/15/2018

Time Report Requested: 00:15:07

NTP Study Number:

600157

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**Test Compound: 1,2,3-Trichloropropane
CAS Number: 96-18-4

Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹ 0.0	78 ± 6.5	106 ± 4.7	93 ± 2.3	219 ± 1.0	241 ± 21.1
10.0	88 ± 1.2		176 ± 3.0		527 ± 14.5
33.0	94 ± 2.5	121 ± 2.5	349 ± 10.2	380 ± 7.8	1008 ± 18.8
100.0	86 ± 7.1	106 ± 4.2	748 ± 27.5	700 ± 53.8	1628 ± 57.7
333.0	87 ± 3.8	108 ± 2.7	1518 ± 32.7	1242 ± 54.3	2292 ± 136.9
666.0	115 ± 4.0		1924 ± 55.3		Toxic
667.0		121 ± 4.5 ^s		1786 ± 24.2 ^s	
1000.0		Toxic		Toxic	
Trial Summary	Equivocal	Negative	Positive	Positive	Positive
Positive Control ²					524 ± 17.9
Positive Control ³	446 ± 27.0	410 ± 7.2			
Positive Control ⁴			509 ± 17.4	915 ± 26.9	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	81 ± 1.9	89 ± 3.8
0.0	196 ± 11.9	
10.0	762 ± 29.7	728 ± 32.7
33.0	1263 ± 20.0	1122 ± 29.0
100.0	2612 ± 269.1	2728 ± 44.2
333.0	2879 ± 87.3 ^s	3235 ± 210.9
666.0	Toxic	148 ± 18.6 ^s
667.0		
1000.0		
Trial Summary	Positive	Positive
Positive Control ²	355 ± 12.7	2400 ± 65.0
Positive Control ³		
Positive Control ⁴		

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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 ¹	19 ± 2.4	21 ± 1.7	22 ± 2.3	47 ± 4.8	4 ± 0.6
0.0					38 ± 2.5
10.0	14 ± 0.9		33 ± 1.9		178 ± 6.7
33.0	17 ± 1.9	29 ± 5.5	107 ± 2.0	94 ± 4.7	364 ± 12.3
100.0	19 ± 3.2	24 ± 2.8	203 ± 7.9	203 ± 11.5	786 ± 32.8
333.0	20 ± 3.8	31 ± 2.3	456 ± 22.6	415 ± 4.2	1286 ± 22.0 ^s
666.0	22 ± 2.2		549 ± 38.7		Toxic
667.0		23 ± 1.2 ^s		544 ± 37.9 ^s	
1000.0		12 ± 0.5 ^s		147 ± 20.4 ^s	
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					59 ± 4.2
Positive Control ³	280 ± 18.0	330 ± 18.8			
Positive Control ⁵			239 ± 15.2	254 ± 11.9	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.9
0.0	
10.0	159 ± 16.5
33.0	325 ± 5.9
100.0	720 ± 33.5
333.0	1340 ± 29.7
666.0	Toxic
667.0	
1000.0	
Trial Summary	Positive
Positive Control ²	256 ± 8.7
Positive Control ³	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	74 ± 2.8	142 ± 4.4	111 ± 5.8	183 ± 20.5	108 ± 6.0
10.0	84 ± 4.2		133 ± 9.1		211 ± 6.4
33.0	64 ± 8.5	177 ± 2.8	162 ± 8.4	233 ± 5.8	365 ± 5.0
100.0	78 ± 3.5	131 ± 12.2	219 ± 12.6	270 ± 7.2	779 ± 20.1
333.0	93 ± 2.5	160 ± 17.0	408 ± 34.4	391 ± 7.3	1422 ± 50.3
666.0	75 ± 2.6		489 ± 5.0		270 ± 11.3 ^s
667.0		99 ± 3.8 ^s		520 ± 15.2	
1000.0		97 ± 2.0 ^s		518 ± 16.1	
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ⁴					521 ± 4.5
Positive Control ⁵			1411 ± 29.8	1307 ± 28.3	
Positive Control ⁶	105 ± 5.2	345 ± 10.0			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	137 ± 3.0
10.0	194 ± 6.5
33.0	319 ± 20.3
100.0	691 ± 24.7
333.0	358 ± 54.5 ^s
666.0	Toxic
667.0	
1000.0	
Trial Summary	Positive
Positive Control ⁴	532 ± 10.6
Positive Control ⁵	
Positive Control ⁶	

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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	18 ± 4.6	22 ± 2.4	36 ± 6.2	38 ± 1.3	38 ± 1.2
10.0	19 ± 2.6		28 ± 3.5		35 ± 0.3
33.0	17 ± 0.6	19 ± 1.9	34 ± 0.9	34 ± 2.3	53 ± 9.6
100.0	18 ± 3.8	24 ± 2.2	47 ± 5.2	59 ± 3.0	76 ± 5.1
333.0	13 ± 2.4	18 ± 2.0	67 ± 3.2	68 ± 6.3	193 ± 7.5
666.0	14 ± 1.8		89 ± 10.9		61 ± 8.7 ^s
667.0		22 ± 0.7		91 ± 1.2	
1000.0		Toxic		43 ± 3.1 ^s	
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ⁷					2226 ± 101.1
Positive Control ²			263 ± 11.6	229 ± 11.3	
Positive Control ⁸	189 ± 10.7	219 ± 11.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	59 ± 4.9
10.0	59 ± 1.5
33.0	77 ± 10.2
100.0	82 ± 9.9
333.0	191 ± 24.7
666.0	
667.0	181 ± 8.7
1000.0	
Trial Summary	Positive
Positive Control ⁷	151 ± 11.0
Positive Control ²	
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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 3.5 ug/Plate 9-Aminoacridine

7: 0.2 ug/Plate 2-Aminoanthracene

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****