

Experiment Number: 151994

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3,5,6-Tetrachloronitrobenzene

CAS Number: 117-18-0

Date Report Requested: 09/12/2018

Time Report Requested: 15:07:48

NTP Study Number:

151994

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	110 ± 7.5	101 ± 4.7	131 ± 14.8	162 ± 1.2	153 ± 8.8
3.3	113 ± 6.6	105 ± 4.7		152 ± 9.7	124 ± 17.2
10.0	101 ± 4.0	111 ± 10.4		151 ± 7.1	131 ± 5.5
33.0	86 ± 7.4	101 ± 13.0	102 ± 18.0	144 ± 6.2	144 ± 8.0
100.0	95 ± 11.5	97 ± 9.4	90 ± 17.6	162 ± 14.3	154 ± 2.1
333.0	88 ± 6.7	87 ± 17.3	94 ± 20.5	158 ± 5.8	153 ± 2.3
1000.0			97 ± 30.8		
3333.0			115 ± 49.7		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				557 ± 31.9	660 ± 92.7
Positive Control ³	465 ± 10.3	653 ± 37.8	640 ± 54.4		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	150 ± 4.0	154 ± 10.1	146 ± 6.2	138 ± 9.4
3.3		174 ± 4.7	146 ± 9.8	
10.0		166 ± 7.5	150 ± 4.6	
33.0	118 ± 18.4	206 ± 10.6	178 ± 10.7	134 ± 19.3
100.0	112 ± 20.2	209 ± 13.9	205 ± 9.4	140 ± 36.4
333.0	140 ± 5.2	261 ± 3.8	216 ± 16.6	156 ± 37.2
1000.0	127 ± 11.9			142 ± 19.7
3333.0	168 ± 15.2			159 ± 20.5
Trial Summary	Negative	Weakly Positive	Weakly Positive	Negative
Positive Control ²	748 ± 17.3	727 ± 67.8	1044 ± 65.8	1125 ± 70.7
Positive Control ³				

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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	4 ± 0.9	7 ± 1.7	8 ± 0.3	8 ± 0.3	5 ± 2.0
3.3	4 ± 0.9	7 ± 0.6	6 ± 1.0	9 ± 1.5	5 ± 1.3
10.0	5 ± 0.9	8 ± 1.0	7 ± 1.2	9 ± 0.9	5 ± 0.6
33.0	4 ± 0.7	9 ± 0.9	4 ± 0.7	6 ± 1.2	6 ± 0.9
100.0	5 ± 0.6	9 ± 0.3	5 ± 0.7	9 ± 2.3	8 ± 2.0
333.0	4 ± 0.0	7 ± 0.3	4 ± 0.6	7 ± 2.4	6 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			24 ± 3.0	68 ± 11.1	39 ± 3.3
Positive Control ³	237 ± 39.8	500 ± 170.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.7
3.3	11 ± 2.0
10.0	10 ± 0.9
33.0	9 ± 0.9
100.0	9 ± 2.2
333.0	10 ± 0.3
Trial Summary	Negative
Positive Control ²	137 ± 20.9
Positive Control ³	

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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 ¹	3 ± 0.3	4 ± 0.3	6 ± 0.7	5 ± 1.0	4 ± 1.5
3.3	3 ± 0.6	8 ± 3.8	6 ± 0.7	9 ± 2.0	4 ± 1.0
10.0	3 ± 0.9	2 ± 0.9	5 ± 0.3	4 ± 0.3	4 ± 0.7
33.0	2 ± 1.3	4 ± 1.7	4 ± 0.7	5 ± 1.7	5 ± 1.8
100.0	2 ± 0.9	2 ± 0.3	4 ± 0.6	8 ± 2.6	5 ± 0.9
333.0	3 ± 0.6	3 ± 0.7	2 ± 0.0	6 ± 1.9	6 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			21 ± 0.6	45 ± 11.6	32 ± 3.5
Positive Control ⁴	152 ± 11.0	73 ± 21.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2
3.3	7 ± 0.7
10.0	10 ± 2.0
33.0	7 ± 0.3
100.0	8 ± 1.3
333.0	8 ± 0.9
Trial Summary	Negative
Positive Control ²	77 ± 23.8
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	18 ± 2.7	16 ± 1.2	15 ± 1.8	30 ± 4.8	22 ± 4.4
3.3	18 ± 2.2	14 ± 1.2		27 ± 2.1	24 ± 2.0
10.0	17 ± 2.2	14 ± 0.7		27 ± 1.5	19 ± 0.3
33.0	14 ± 2.4	14 ± 2.8	9 ± 2.0	26 ± 5.2	20 ± 2.9
100.0	16 ± 3.1	13 ± 1.0	11 ± 0.3	22 ± 2.0	20 ± 2.6
333.0	15 ± 1.9	11 ± 1.5	8 ± 1.5	29 ± 1.8	25 ± 2.1
1000.0			10 ± 1.3		
3333.0			7 ± 2.5		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				623 ± 18.8	545 ± 47.6
Positive Control ⁵	400 ± 41.4	400 ± 15.2	329 ± 12.1		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.4	27 ± 0.6	22 ± 2.4	14 ± 4.6
3.3		26 ± 1.5	22 ± 2.0	
10.0		25 ± 1.2	22 ± 1.0	
33.0	16 ± 0.9	28 ± 1.7	22 ± 0.9	9 ± 2.5
100.0	15 ± 1.3	31 ± 2.1	32 ± 5.4	17 ± 5.0
333.0	15 ± 3.2	36 ± 2.2	30 ± 0.9	19 ± 2.1
1000.0	11 ± 2.7			16 ± 1.2
3333.0	13 ± 2.9			14 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	491 ± 119.3	913 ± 46.3	849 ± 6.9	702 ± 117.8
Positive Control ⁵				

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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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****