

Experiment Number: 648470

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2,3,4-Tetrachloronaphthalene

CAS Number: 20020-02-4

Date Report Requested: 09/11/2018

Time Report Requested: 05:24:15

NTP Study Number:

648470

Study Result:

Negative

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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	94 ± 4.5	128 ± 11.5	107 ± 19.4	114 ± 13.0	92 ± 7.1
100.0	99 ± 1.3	99 ± 0.6	100 ± 9.0	127 ± 3.6	99 ± 13.6
333.3	80 ± 6.0	100 ± 2.3 ^p	103 ± 5.8	109 ± 11.5 ^p	111 ± 6.2
1000.0	78 ± 3.5 ^p	100 ± 16.5 ^p	94 ± 7.2 ^p	125 ± 12.3 ^p	107 ± 1.8 ^p
3333.3	91 ± 6.1 ^p	101 ± 5.8 ^p	85 ± 6.8 ^p	114 ± 9.5 ^p	98 ± 3.6 ^p
10000.0	97 ± 17.0 ^p	103 ± 2.6 ^p	119 ± 10.8 ^p	119 ± 7.0 ^p	104 ± 5.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	268 ± 16.6	237 ± 6.4			
Positive Control ³			1492 ± 61.4	731 ± 45.2	2368 ± 57.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	131 ± 10.3
100.0	117 ± 3.2
333.3	109 ± 10.8 ^P
1000.0	96 ± 9.3 ^P
3333.3	102 ± 7.9 ^P
10000.0	109 ± 3.8 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	2327 ± 23.1

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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	12 ± 1.5	13 ± 2.1	14 ± 2.1	14 ± 3.8	19 ± 2.5
100.0	6 ± 1.0	12 ± 1.5	16 ± 1.3	17 ± 1.0	13 ± 2.9
333.3	7 ± 0.7	9 ± 1.2 ^p	14 ± 0.3	15 ± 1.8 ^p	15 ± 2.7
1000.0	9 ± 1.7 ^p	10 ± 1.8 ^p	18 ± 2.8 ^p	9 ± 2.1 ^p	14 ± 0.9 ^p
3333.3	9 ± 1.3 ^p	10 ± 1.2 ^p	18 ± 5.0 ^p	12 ± 2.9 ^p	12 ± 2.5 ^p
10000.0	9 ± 1.5 ^p	11 ± 0.0 ^p	16 ± 1.7 ^p	11 ± 1.7 ^p	11 ± 1.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	300 ± 12.9	143 ± 14.5			
Positive Control ⁴			325 ± 27.3	238 ± 31.8	501 ± 23.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.7
100.0	16 ± 0.9
333.3	17 ± 3.9 ^p
1000.0	16 ± 1.2 ^p
3333.3	11 ± 1.5 ^p
10000.0	12 ± 3.5 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	447 ± 14.0

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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	5 ± 1.7	5 ± 1.2	8 ± 0.7	6 ± 0.3	6 ± 0.3
100.0	4 ± 1.7	4 ± 0.0	5 ± 0.3	7 ± 0.7	4 ± 0.9
333.3	3 ± 0.7	6 ± 1.5 ^P	4 ± 0.3	6 ± 0.7 ^P	5 ± 1.7
1000.0	4 ± 0.9 ^P	3 ± 0.9 ^P	5 ± 0.7 ^P	8 ± 1.7 ^P	5 ± 0.6 ^P
3333.3	4 ± 0.0 ^P	6 ± 1.5 ^P	5 ± 1.0 ^P	4 ± 1.5 ^P	4 ± 1.2 ^P
10000.0	5 ± 1.2 ^P	6 ± 1.5 ^P	6 ± 2.4 ^P	6 ± 0.9 ^P	5 ± 0.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			494 ± 38.2	190 ± 9.6	522 ± 52.2
Positive Control ⁵	274 ± 85.5	228 ± 17.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7
100.0	3 ± 0.9
333.3	5 ± 1.2 ^P
1000.0	4 ± 0.6 ^P
3333.3	7 ± 2.2 ^P
10000.0	6 ± 2.0 ^P
Trial Summary	Negative
Positive Control ⁴	459 ± 3.0
Positive Control ⁵	

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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	36 ± 2.1	27 ± 4.9	30 ± 1.5	36 ± 7.5	28 ± 4.9
100.0	28 ± 7.1	34 ± 6.7	28 ± 4.3	38 ± 3.2	42 ± 5.5
333.3	24 ± 2.7	25 ± 4.5 ^P	32 ± 6.0	36 ± 4.6 ^P	34 ± 4.2
1000.0	23 ± 3.7 ^P	32 ± 2.1 ^P	25 ± 2.1 ^P	35 ± 2.3 ^P	38 ± 3.1 ^P
3333.3	28 ± 2.0 ^P	31 ± 4.8 ^P	28 ± 4.3 ^P	36 ± 1.7 ^P	51 ± 3.5 ^P
10000.0	42 ± 3.8 ^P	31 ± 5.6 ^P	38 ± 0.6 ^P	36 ± 1.5 ^P	43 ± 0.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ³			1033 ± 57.8	578 ± 18.6	1889 ± 123.0
Positive Control ⁶	550 ± 97.1	445 ± 29.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	41 ± 3.4
100.0	38 ± 3.5
333.3	35 ± 3.3 ^P
1000.0	31 ± 1.2 ^P
3333.3	30 ± 3.2 ^P
10000.0	31 ± 2.7 ^P
Trial Summary	Negative
Positive Control ³	1725 ± 58.0
Positive Control ⁶	

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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: 95% Ethanol

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****