

Experiment Number: 926918

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Pentachloroethane

CAS Number: 76-01-7

Date Report Requested: 09/17/2018

Time Report Requested: 07:40:52

NTP Study Number:

926918

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	159 ± 0.6	159 ± 7.5	148 ± 7.2	127 ± 6.7	134 ± 3.2
3.0	146 ± 3.8	130 ± 9.5	156 ± 5.2	116 ± 5.2	124 ± 3.8
10.0	134 ± 2.7	104 ± 10.5	152 ± 8.4	105 ± 6.1	126 ± 4.5
33.0	130 ± 4.3	104 ± 4.7	143 ± 9.5	110 ± 8.0	139 ± 11.9
100.0	128 ± 3.3	94 ± 7.4	126 ± 8.5	89 ± 12.4	109 ± 9.0
333.0	9 ± 6.0	Toxic	Toxic	0 ± 0.0 ^s	26 ± 26.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			783 ± 47.7	712 ± 22.3	1711 ± 71.5
Positive Control ³	407 ± 29.7	416 ± 16.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	134 ± 1.9
3.0	124 ± 7.2
10.0	136 ± 13.2
33.0	125 ± 7.3
100.0	119 ± 3.8
333.0	Toxic
Trial Summary	Negative
Positive Control ²	1785 ± 44.9
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	29 ± 1.5	41 ± 2.1	34 ± 7.8	41 ± 1.8	28 ± 4.7
3.0	22 ± 5.3	22 ± 2.1	43 ± 5.3	25 ± 5.7	34 ± 1.8
10.0	17 ± 1.8	28 ± 1.5	43 ± 0.6	19 ± 1.0	32 ± 3.8
33.0	20 ± 3.2	19 ± 3.0	41 ± 6.4	27 ± 2.7	32 ± 2.3
100.0	14 ± 6.2	23 ± 3.0	40 ± 2.3	23 ± 3.4	29 ± 1.2
333.0	1 ± 1.0 ^s	Toxic	18 ± 0.9 ^s	Toxic	6 ± 5.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	359 ± 3.6	536 ± 4.4			
Positive Control ⁴			230 ± 11.1	273 ± 6.9	430 ± 11.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.8
3.0	42 ± 4.5
10.0	26 ± 4.1
33.0	33 ± 6.4
100.0	23 ± 3.3
333.0	15 ± 14.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	486 ± 4.3

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	4 ± 0.0	10 ± 1.9	7 ± 2.9	6 ± 0.9	10 ± 2.8
3.0	8 ± 2.6	101 ± 1.0	9 ± 2.0	11 ± 1.5	7 ± 0.6
10.0	5 ± 1.8	80 ± 6.4	8 ± 0.9	18 ± 3.3	5 ± 1.5
33.0	5 ± 1.7	94 ± 5.0	6 ± 0.3	15 ± 1.5	5 ± 1.2
100.0	6 ± 0.6	93 ± 5.4	7 ± 1.2	10 ± 1.9	8 ± 0.9
333.0	Toxic	0 ± 0.0 ^s	Toxic	2 ± 1.2 ^s	Toxic
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴				277 ± 9.0	178 ± 5.8
Positive Control ⁵	745 ± 79.3	667 ± 30.4	109 ± 8.7		

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9	8 ± 2.1
3.0	7 ± 1.2	7 ± 1.3
10.0	6 ± 0.9	4 ± 0.7
33.0	9 ± 2.6	6 ± 1.7
100.0	5 ± 1.9	4 ± 0.3
333.0	0 ± 0.0 ^s	Toxic
Trial Summary	Negative	Negative
Positive Control ⁴	588 ± 22.8	537 ± 19.5
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	15 ± 1.5	28 ± 1.5	25 ± 1.9	38 ± 3.8	25 ± 2.9
3.0	14 ± 1.3	16 ± 1.2	25 ± 3.0	26 ± 5.8	25 ± 4.4
10.0	14 ± 3.9	15 ± 4.4	24 ± 4.0	27 ± 3.0	23 ± 1.3
33.0	13 ± 1.9	17 ± 4.6	26 ± 3.3	26 ± 5.0	29 ± 0.6
100.0	12 ± 4.4	12 ± 4.5	24 ± 2.2	24 ± 2.9	22 ± 3.6
333.0	Toxic	Toxic	2 ± 2.0 ^s	Toxic	19 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			642 ± 35.6	560 ± 28.4	1323 ± 96.2
Positive Control ⁶	942 ± 48.3	852 ± 8.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	40 ± 4.3
3.0	49 ± 7.2
10.0	37 ± 4.8
33.0	32 ± 7.5
100.0	27 ± 3.7
333.0	27 ± 1.5
Trial Summary	Negative
Positive Control ²	1738 ± 38.5
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

** END OF REPORT **