

Experiment Number: 248997

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hexachloroethane

CAS Number: 67-72-1

Date Report Requested: 09/11/2018

Time Report Requested: 01:35:48

NTP Study Number:

248997

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	91 ± 3.5	97 ± 3.2	110 ± 1.2	104 ± 5.3	102 ± 5.1
100.0	79 ± 8.7	93 ± 7.2	99 ± 1.0	114 ± 4.6	95 ± 6.8
333.3	76 ± 6.7	100 ± 4.6	84 ± 2.7	97 ± 12.2	92 ± 4.6
1000.0	75 ± 3.5	104 ± 4.6	95 ± 8.5	82 ± 2.3	88 ± 4.4
3333.3	82 ± 9.8	101 ± 2.0	92 ± 3.2	94 ± 11.6	87 ± 2.8
10000.0	80 ± 5.0	108 ± 1.8	99 ± 2.1	95 ± 11.0	96 ± 8.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	375 ± 8.0	263 ± 22.9			
Positive Control ³			884 ± 38.2	867 ± 37.5	1503 ± 33.8

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	133 ± 2.2
100.0	104 ± 4.8
333.3	116 ± 5.3
1000.0	104 ± 5.7
3333.3	101 ± 5.3
10000.0	111 ± 1.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1563 ± 23.4

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Hexachloroethane

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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	24 ± 2.1	25 ± 2.6	14 ± 1.2	12 ± 2.6	11 ± 0.7
100.0	17 ± 2.6	23 ± 3.4	10 ± 1.5	11 ± 2.2	8 ± 0.3
333.3	21 ± 2.2	23 ± 3.1	8 ± 0.7	7 ± 1.2	11 ± 2.5
1000.0	13 ± 2.4	22 ± 1.9	9 ± 1.5	7 ± 0.9	7 ± 0.9
3333.3	12 ± 2.0	21 ± 2.3	9 ± 2.0	9 ± 2.3	14 ± 4.4
10000.0	10 ± 2.3	20 ± 1.9	8 ± 0.3	9 ± 1.5	9 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	381 ± 11.9	334 ± 52.4			
Positive Control ⁴			213 ± 9.6	288 ± 3.7	364 ± 13.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.2
100.0	10 ± 2.4
333.3	10 ± 3.2
1000.0	10 ± 2.5
3333.3	12 ± 2.1
10000.0	9 ± 2.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	424 ± 16.7

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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	19 ± 2.6	12 ± 2.5	21 ± 4.3	26 ± 1.7	25 ± 2.2
100.0	7 ± 0.3	12 ± 1.7	10 ± 1.7	17 ± 2.2	7 ± 0.6
333.3	9 ± 1.2	12 ± 2.5	10 ± 2.5	15 ± 0.3	10 ± 2.3
1000.0	10 ± 2.4	12 ± 1.9	10 ± 1.2	17 ± 0.3	10 ± 3.5
3333.3	9 ± 1.7	18 ± 1.8	8 ± 1.3	12 ± 2.0	10 ± 4.1
10000.0	11 ± 0.9	10 ± 1.8	11 ± 1.0	12 ± 1.7	11 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			231 ± 41.9	293 ± 9.6	510 ± 40.2
Positive Control ⁵	154 ± 41.5	729 ± 105.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	34 ± 1.5
100.0	24 ± 1.7
333.3	31 ± 2.6
1000.0	27 ± 5.3
3333.3	23 ± 3.4
10000.0	19 ± 1.3
Trial Summary	Negative
Positive Control ⁴	462 ± 13.5
Positive Control ⁵	

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Test Compound: Hexachloroethane

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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	37 ± 3.5	21 ± 3.5	42 ± 5.5	35 ± 4.0	49 ± 2.6
100.0	28 ± 1.2	20 ± 1.0	58 ± 6.8	20 ± 3.5	45 ± 4.1
333.3	23 ± 5.2	21 ± 1.3	43 ± 9.4	21 ± 5.3	33 ± 5.9
1000.0	28 ± 1.2	20 ± 0.3	47 ± 2.2	22 ± 6.1	33 ± 3.8
3333.3	26 ± 4.8	22 ± 3.5	39 ± 3.8	19 ± 2.4	32 ± 6.3
10000.0	28 ± 2.5	33 ± 2.3	37 ± 3.3	32 ± 3.5	48 ± 9.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			517 ± 27.4	698 ± 37.4	1210 ± 11.8
Positive Control ⁶	420 ± 8.4	373 ± 9.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	43 ± 1.7
100.0	37 ± 1.0
333.3	35 ± 1.5
1000.0	39 ± 0.3
3333.3	37 ± 3.5
10000.0	48 ± 6.6
Trial Summary	Negative
Positive Control ³	1528 ± 6.1
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: Dimethyl Sulfoxide

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

**** END OF REPORT ****