

Experiment Number: 880475

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hexachlorobenzene

CAS Number: 118-74-1

Date Report Requested: 09/16/2018

Time Report Requested: 19:22:48

NTP Study Number:

880475

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	81 ± 7.5	91 ± 3.2	107 ± 3.0	88 ± 7.0	96 ± 9.9
100.0	88 ± 6.4	86 ± 7.0	113 ± 6.1	101 ± 13.1	92 ± 5.4
333.3	83 ± 4.7	86 ± 4.2	93 ± 4.9	87 ± 7.4	92 ± 3.8
1000.0	63 ± 6.6 ^p	68 ± 3.6 ^p	83 ± 4.5 ^p	77 ± 7.2 ^p	82 ± 5.1 ^p
3333.3	75 ± 7.0 ^p	88 ± 5.8 ^p	103 ± 11.5 ^p	97 ± 9.2 ^p	86 ± 7.9 ^p
10000.0	72 ± 7.6 ^p	87 ± 7.8 ^p	92 ± 1.5 ^p	99 ± 2.0 ^p	87 ± 2.1 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	376 ± 17.8	500 ± 10.5			
Positive Control ³			826 ± 35.9	1066 ± 12.2	1238 ± 90.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	93 ± 6.0
100.0	107 ± 4.2
333.3	90 ± 4.6
1000.0	105 ± 3.4 ^p
3333.3	93 ± 4.1 ^p
10000.0	97 ± 2.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	290 ± 21.3

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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	18 ± 3.5	8 ± 0.6	11 ± 2.6	5 ± 2.0	9 ± 0.6
100.0	22 ± 2.5	10 ± 0.6	8 ± 0.3	6 ± 0.6	7 ± 2.0
333.3	15 ± 1.2	9 ± 1.2	10 ± 1.5	6 ± 0.7	5 ± 1.5
1000.0	20 ± 0.9 ^p	12 ± 2.3 ^p	9 ± 2.6 ^p	4 ± 0.6 ^p	9 ± 1.3 ^p
3333.3	17 ± 3.7 ^p	9 ± 1.3 ^p	9 ± 1.5 ^p	8 ± 0.6 ^p	13 ± 2.6 ^p
10000.0	13 ± 2.0 ^p	11 ± 2.7 ^p	9 ± 0.3 ^p	5 ± 0.9 ^p	10 ± 0.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	300 ± 20.8	337 ± 22.5			
Positive Control ⁴			355 ± 11.3	387 ± 26.3	326 ± 21.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 3.1
100.0	5 ± 0.7
333.3	6 ± 2.8
1000.0	8 ± 3.1 ^P
3333.3	8 ± 1.2 ^P
10000.0	7 ± 1.5 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	186 ± 12.9

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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	6 ± 1.2	6 ± 0.3	15 ± 0.3	6 ± 0.7	10 ± 1.7
100.0	7 ± 1.9	8 ± 1.9	21 ± 1.7	7 ± 0.7	16 ± 2.5
333.3	12 ± 1.7	4 ± 0.3	17 ± 2.3	7 ± 0.6	16 ± 2.6
1000.0	8 ± 0.9 ^p	6 ± 1.9 ^p	22 ± 4.6 ^p	8 ± 0.9 ^p	23 ± 4.3 ^p
3333.3	10 ± 2.4 ^p	5 ± 1.7 ^p	21 ± 2.0 ^p	9 ± 0.9 ^p	15 ± 3.3 ^p
10000.0	11 ± 1.2 ^p	7 ± 1.8 ^p	18 ± 2.4 ^p	7 ± 0.9 ^p	15 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			297 ± 29.2	461 ± 16.3	487 ± 34.8
Positive Control ⁵	245 ± 42.5	258 ± 17.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.7
100.0	9 ± 1.9
333.3	10 ± 2.7
1000.0	10 ± 1.7 ^p
3333.3	8 ± 1.2 ^p
10000.0	9 ± 1.3 ^p
Trial Summary	Negative
Positive Control ⁴	362 ± 20.4
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	19 ± 1.2	14 ± 2.5	41 ± 1.7	22 ± 3.1	29 ± 2.3
100.0	23 ± 4.0	15 ± 1.5	41 ± 0.9	26 ± 1.9	34 ± 2.8
333.3	23 ± 1.2	15 ± 1.3	35 ± 3.3	25 ± 2.1	32 ± 7.1
1000.0	19 ± 1.2 ^p	15 ± 1.7 ^p	41 ± 3.7 ^p	23 ± 3.7 ^p	34 ± 3.2 ^p
3333.3	20 ± 3.8 ^p	16 ± 0.3 ^p	30 ± 0.7 ^p	23 ± 1.0 ^p	36 ± 3.5 ^p
10000.0	23 ± 1.9 ^p	21 ± 1.7 ^p	37 ± 1.9 ^p	19 ± 1.7 ^p	38 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			542 ± 12.7	787 ± 53.4	198 ± 10.1
Positive Control ⁶	655 ± 69.8	693 ± 39.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.2
100.0	22 ± 1.3
333.3	20 ± 2.2
1000.0	24 ± 3.0 ^P
3333.3	16 ± 0.9 ^P
10000.0	19 ± 3.8 ^P
Trial Summary	Negative
Positive Control ³	199 ± 7.8
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
- p: Precipitate

** END OF REPORT **