

Experiment Number: 053374

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hexabromobenzene

CAS Number: 87-82-1

Date Report Requested: 09/15/2018

Time Report Requested: 02:47:19

NTP Study Number:

053374

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	118 ± 10.3	129 ± 10.5	129 ± 10.3	122 ± 3.0	156 ± 7.5
10.0	97 ± 8.0	128 ± 14.7	137 ± 8.0	136 ± 7.3	112 ± 3.0
33.0	81 ± 6.1	146 ± 28.9	125 ± 2.3	130 ± 18.6	124 ± 3.8
100.0	83 ± 2.9	129 ± 17.1	125 ± 8.6	153 ± 15.4	116 ± 2.1
333.0	88 ± 3.7	129 ± 12.5	137 ± 7.2	182 ± 1.5	130 ± 2.0
500.0	99 ± 8.0	133 ± 8.4	120 ± 2.7	154 ± 18.8	133 ± 6.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			922 ± 13.6	1440 ± 65.0	1483 ± 25.8
Positive Control ³	578 ± 32.2	583 ± 36.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	159 ± 1.5
10.0	160 ± 15.9
33.0	170 ± 18.8
100.0	167 ± 17.2
333.0	182 ± 17.1
500.0	178 ± 13.3
Trial Summary	Negative
Positive Control ²	2360 ± 21.9
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	6 ± 0.3	4 ± 1.7	5 ± 1.2	4 ± 0.6	6 ± 0.3
10.0	3 ± 1.5	2 ± 0.9	6 ± 1.8	5 ± 0.3	4 ± 1.2
33.0	4 ± 0.6	4 ± 0.7	3 ± 0.9	5 ± 1.5	7 ± 0.6
100.0	8 ± 0.3	4 ± 1.5	7 ± 1.5	6 ± 2.0	5 ± 2.0
333.0	6 ± 0.3	3 ± 0.7	5 ± 2.0	4 ± 0.6	3 ± 0.3
500.0	6 ± 0.6	6 ± 1.5	4 ± 0.9	3 ± 0.9	2 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			196 ± 5.0	46 ± 4.2	29 ± 2.4
Positive Control ³	379 ± 7.0	367 ± 12.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.6
10.0	4 ± 0.7
33.0	5 ± 0.3
100.0	5 ± 0.9
333.0	3 ± 0.3
500.0	4 ± 0.9
Trial Summary	Negative
Positive Control ²	96 ± 5.2
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 ± 1.2	4 ± 1.5	5 ± 0.6	4 ± 1.2	5 ± 0.9
10.0	3 ± 0.6	4 ± 0.3	12 ± 1.7	6 ± 2.0	7 ± 1.5
33.0	3 ± 0.6	4 ± 1.5	8 ± 0.6	6 ± 0.6	7 ± 1.5
100.0	4 ± 1.3	3 ± 1.0	7 ± 0.6	5 ± 0.9	6 ± 1.9
333.0	5 ± 2.2	4 ± 1.8	7 ± 0.6	4 ± 1.2	4 ± 0.9
500.0	8 ± 3.2	5 ± 3.0	6 ± 0.7	5 ± 0.9	6 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			71 ± 3.2	53 ± 16.6	129 ± 37.4
Positive Control ⁴	319 ± 121.4	817 ± 66.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3
10.0	7 ± 0.3
33.0	9 ± 1.2
100.0	7 ± 0.3
333.0	8 ± 2.6
500.0	6 ± 0.5
Trial Summary	Negative
Positive Control ²	99 ± 5.8
Positive Control ⁴	

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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	16 ± 0.3	17 ± 1.8	19 ± 2.0	25 ± 3.3	19 ± 3.0
10.0	14 ± 2.3	14 ± 2.4	20 ± 2.6	23 ± 3.4	20 ± 2.4
33.0	20 ± 0.6	17 ± 1.9	25 ± 1.2	21 ± 6.0	19 ± 0.6
100.0	16 ± 2.3	19 ± 1.2	28 ± 3.2	26 ± 6.4	21 ± 0.7
333.0	18 ± 1.2	16 ± 2.4	28 ± 1.5	24 ± 6.8	26 ± 3.1
500.0	16 ± 2.0	16 ± 1.5	23 ± 0.6	24 ± 3.8	18 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			633 ± 76.1	1777 ± 31.6	1159 ± 135.8
Positive Control ⁵	359 ± 11.7	597 ± 17.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 3.5
10.0	27 ± 1.5
33.0	29 ± 2.5
100.0	25 ± 2.8
333.0	28 ± 6.0
500.0	26 ± 1.2
Trial Summary	Negative
Positive Control ²	2138 ± 42.7
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 ****