

Experiment Number: 185983

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Decabromodiphenyl oxide

CAS Number: 1163-19-5

Date Report Requested: 09/13/2018

Time Report Requested: 19:33:05

NTP Study Number:

185983

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	137 ± 7.2	119 ± 4.2	137 ± 7.2	121 ± 7.8	136 ± 8.5
100.0	149 ± 2.1	125 ± 6.4	139 ± 5.8	142 ± 6.4	127 ± 5.8
333.0	130 ± 3.5	106 ± 5.5	141 ± 12.4	131 ± 5.0	121 ± 13.7
1000.0	123 ± 4.7	134 ± 6.8	131 ± 5.0	137 ± 9.8	117 ± 3.6
3333.0	125 ± 4.2 ^p	122 ± 18.4	144 ± 3.3 ^p	178 ± 8.7	137 ± 1.2 ^p
10000.0	117 ± 9.1 ^p	118 ± 13.5	143 ± 2.3 ^p	130 ± 17.3	132 ± 4.8 ^p
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²	518 ± 8.7	420 ± 7.0			
Positive Control ³			518 ± 8.7	612 ± 14.7	1211 ± 19.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	112 ± 6.7
100.0	144 ± 5.0
333.0	130 ± 18.1
1000.0	131 ± 8.7
3333.0	131 ± 9.0
10000.0	131 ± 1.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1027 ± 43.5

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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	32 ± 2.2	29 ± 0.9	11 ± 1.0	13 ± 0.6	12 ± 2.3
100.0	27 ± 2.2	24 ± 3.2	16 ± 1.9	9 ± 1.5	11 ± 2.0
333.0	29 ± 3.8	34 ± 2.0	13 ± 2.7	4 ± 0.3	11 ± 2.3
1000.0	26 ± 3.6	26 ± 1.5	13 ± 5.8	8 ± 2.8	10 ± 1.2
3333.0	21 ± 1.5 ^P	27 ± 1.2	11 ± 1.2 ^P	12 ± 1.7	16 ± 0.9 ^P
10000.0	20 ± 1.2 ^P	19 ± 3.0	12 ± 2.3 ^P	12 ± 3.5	9 ± 2.1 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	526 ± 11.3	554 ± 6.7			
Positive Control ⁴			408 ± 6.8	346 ± 24.7	376 ± 13.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.8
100.0	11 ± 2.8
333.0	9 ± 1.7
1000.0	13 ± 3.3
3333.0	13 ± 2.0
10000.0	14 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	377 ± 16.4

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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 ± 0.9	5 ± 0.7	11 ± 1.9	8 ± 1.0	11 ± 0.7
100.0	10 ± 0.9	9 ± 0.9	10 ± 1.2	10 ± 1.5	9 ± 1.9
333.0	11 ± 1.0	9 ± 4.2	8 ± 1.9	10 ± 1.5	7 ± 1.2
1000.0	5 ± 0.7	8 ± 2.1	10 ± 2.1	7 ± 1.3	7 ± 0.3
3333.0	7 ± 0.3 ^P	10 ± 2.5	5 ± 1.7 ^P	13 ± 2.1	7 ± 0.7 ^P
10000.0	6 ± 1.0 ^P	10 ± 2.3	7 ± 1.5 ^P	11 ± 3.4	7 ± 0.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			231 ± 25.0	234 ± 14.0	477 ± 28.6
Positive Control ⁵	211 ± 34.4	141 ± 3.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.8
100.0	5 ± 2.1
333.0	13 ± 2.1
1000.0	12 ± 1.9
3333.0	16 ± 2.0
10000.0	14 ± 0.3
Trial Summary	Negative
Positive Control ⁴	324 ± 8.8
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	20 ± 2.7	23 ± 4.9	23 ± 4.4	36 ± 3.3	33 ± 2.0
100.0	21 ± 2.3	22 ± 2.7	23 ± 4.2	29 ± 2.7	32 ± 4.3
333.0	19 ± 6.2	17 ± 2.0	31 ± 5.5	27 ± 6.2	29 ± 1.5
1000.0	20 ± 2.5	18 ± 0.6	42 ± 4.5	25 ± 5.2	25 ± 3.5
3333.0	17 ± 1.5 ^p	20 ± 2.9	36 ± 3.8 ^p	34 ± 1.8	29 ± 1.3 ^p
10000.0	17 ± 2.0 ^p	20 ± 0.3	27 ± 2.3 ^p	37 ± 5.3	30 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			393 ± 19.4	507 ± 21.0	1144 ± 19.8
Positive Control ⁶	810 ± 47.1	536 ± 43.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.0
100.0	33 ± 3.8
333.0	38 ± 5.5
1000.0	39 ± 2.8
3333.0	43 ± 2.8
10000.0	56 ± 0.3
Trial Summary	Equivocal
Positive Control ³	1048 ± 40.5
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: 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 ****