

Experiment Number: 015629

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Pentabromochlorocyclohexane

CAS Number: 87-84-3

Date Report Requested: 09/14/2018

Time Report Requested: 07:00:17

NTP Study Number:

015629

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	122 ± 9.8	104 ± 5.0	137 ± 6.7	122 ± 17.3	154 ± 6.4
100.0	118 ± 8.0 ^p	115 ± 5.3 ^p	127 ± 5.0 ^p	122 ± 2.7 ^p	156 ± 10.4 ^p
333.0	123 ± 12.1 ^p	122 ± 6.0 ^p	123 ± 9.9 ^p	135 ± 5.7 ^p	155 ± 12.5 ^p
1000.0	104 ± 2.2 ^p	122 ± 8.7 ^p	147 ± 5.7 ^p	150 ± 14.8 ^p	168 ± 13.6 ^p
3333.0	167 ± 4.5 ^p	156 ± 16.7 ^p	137 ± 7.5 ^p	125 ± 7.1 ^p	161 ± 8.8 ^p
10000.0	77 ± 15.3 ^p	110 ± 23.4 ^p	134 ± 9.6 ^p	135 ± 2.2 ^p	155 ± 5.2 ^p
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²	258 ± 1.0	253 ± 30.8			
Positive Control ³			747 ± 47.5	1007 ± 26.8	745 ± 46.6

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	125 ± 11.0
100.0	149 ± 7.4 ^P
333.0	164 ± 10.7 ^P
1000.0	168 ± 10.7 ^P
3333.0	172 ± 9.1 ^P
10000.0	124 ± 19.2 ^P
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	1796 ± 24.3

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	24 ± 4.0	9 ± 1.8	15 ± 1.8	11 ± 3.5	13 ± 3.7
100.0	23 ± 4.0 ^p	19 ± 4.9 ^p	17 ± 2.8 ^p	10 ± 1.8 ^p	15 ± 1.5 ^p
333.0	16 ± 1.5 ^p	17 ± 2.4 ^p	19 ± 2.6 ^p	10 ± 1.7 ^p	19 ± 4.7 ^p
1000.0	23 ± 6.8 ^p	20 ± 2.7 ^p	18 ± 3.7 ^p	14 ± 2.9 ^p	12 ± 2.2 ^p
3333.0	19 ± 2.2 ^p	21 ± 2.9 ^p	18 ± 2.2 ^p	15 ± 2.4 ^p	18 ± 1.5 ^p
10000.0	18 ± 2.0 ^p	30 ± 4.1 ^p	17 ± 1.8 ^p	15 ± 0.9 ^p	12 ± 2.0 ^p
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²	229 ± 7.0	236 ± 17.9	351 ± 75.0		
Positive Control ⁴				155 ± 2.9	289 ± 31.4

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Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.2	11 ± 3.4	6 ± 0.6	6 ± 1.8	11 ± 0.9
100.0	11 ± 1.0 ^p	14 ± 3.8 ^p	9 ± 1.8 ^p	10 ± 1.3 ^p	8 ± 0.3 ^p
333.0	10 ± 1.9 ^p	17 ± 1.9 ^p	11 ± 1.5 ^p	13 ± 3.8 ^p	11 ± 2.3 ^p
1000.0	10 ± 0.9 ^p	15 ± 1.5 ^p	9 ± 2.0 ^p	14 ± 0.9 ^p	11 ± 1.3 ^p
3333.0	7 ± 0.3 ^p	10 ± 0.9 ^p	11 ± 0.7 ^p	14 ± 0.7 ^p	10 ± 1.3 ^p
10000.0	12 ± 3.5 ^p	15 ± 2.6 ^p	8 ± 1.2 ^p	16 ± 1.5 ^p	13 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ⁴	608 ± 111.6	163 ± 3.8	467 ± 13.7	511 ± 7.7	376 ± 4.0

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	100 ± 6.9	133 ± 6.9	123 ± 12.8	191 ± 4.3	120 ± 7.6
100.0	100 ± 5.0 ^P	144 ± 7.5 ^P	139 ± 4.8 ^P	194 ± 6.4 ^P	161 ± 7.2 ^P
333.0	95 ± 10.8 ^P	148 ± 5.4 ^P	125 ± 17.0 ^P	198 ± 11.4 ^P	163 ± 9.6 ^P
1000.0	93 ± 8.3 ^P	138 ± 4.2 ^P	117 ± 7.8 ^P	207 ± 11.7 ^P	154 ± 14.4 ^P
3333.0	88 ± 4.4 ^P	155 ± 7.5 ^P	137 ± 1.2 ^P	207 ± 7.7 ^P	170 ± 11.9 ^P
10000.0	0 ± 0.0 ^S	100 ± 7.3 ^P	131 ± 2.3 ^P	189 ± 24.7 ^P	180 ± 4.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ⁴			414 ± 35.4	512 ± 7.6	2073 ± 46.3
Positive Control ⁵	860 ± 76.5	1074 ± 5.4			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	110 ± 5.2	114 ± 11.1	126 ± 2.3	158 ± 4.5
100.0	139 ± 5.5 ^P	165 ± 8.5 ^P	166 ± 9.5 ^P	158 ± 18.8 ^P
333.0	140 ± 6.0 ^P	157 ± 3.1 ^P	175 ± 14.5 ^P	180 ± 2.0 ^P
1000.0	125 ± 2.5 ^P	170 ± 11.4 ^P	176 ± 18.5 ^P	166 ± 29.0 ^P
3333.0	126 ± 10.7 ^P	160 ± 11.7 ^P	198 ± 20.0 ^P	179 ± 10.2 ^P
10000.0	141 ± 2.3 ^P	177 ± 11.1 ^P	203 ± 7.5 ^P	216 ± 11.6 ^P
Trial Summary	Negative	Equivocal	Weakly Positive	Equivocal
Positive Control ⁴	923 ± 83.6	1885 ± 76.9	904 ± 28.4	1535 ± 29.6
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.9	11 ± 4.8	22 ± 3.3	33 ± 3.3	24 ± 3.5
100.0	11 ± 2.6 ^p	14 ± 1.7 ^p	17 ± 1.7 ^p	32 ± 3.2 ^p	21 ± 2.6 ^p
333.0	12 ± 2.6 ^p	11 ± 0.9 ^p	21 ± 6.0 ^p	28 ± 6.6 ^p	23 ± 3.3 ^p
1000.0	11 ± 1.2 ^p	12 ± 2.7 ^p	20 ± 1.9 ^p	20 ± 4.7 ^p	26 ± 1.5 ^p
3333.0	12 ± 1.8 ^p	9 ± 1.2 ^p	24 ± 2.0 ^p	17 ± 2.9 ^p	31 ± 1.5 ^p
10000.0	4 ± 2.0 ^p	8 ± 0.6 ^p	14 ± 2.4 ^p	13 ± 2.5 ^p	23 ± 2.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			531 ± 24.6	846 ± 25.2	543 ± 20.9
Positive Control ⁶	575 ± 16.2	752 ± 21.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 4.0
100.0	24 ± 1.7 ^P
333.0	19 ± 0.0 ^P
1000.0	26 ± 2.3 ^P
3333.0	19 ± 0.9 ^P
10000.0	20 ± 1.5 ^P
Trial Summary	Negative
Positive Control ³	1562 ± 64.7
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

s: Slight Toxicity

**** END OF REPORT ****