

Experiment Number: 187994

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Pentachlorobenzene

CAS Number: 608-93-5

Date Report Requested: 09/14/2018

Time Report Requested: 01:05:59

NTP Study Number:

187994

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	86 ± 3.3	111 ± 4.4	122 ± 13.9	104 ± 5.3	103 ± 5.7
33.3		83 ± 2.3		114 ± 7.8	
100.0	72 ± 6.6	82 ± 4.5	123 ± 7.8	97 ± 6.3	121 ± 4.0
333.3	81 ± 5.9	86 ± 5.2	96 ± 13.3	98 ± 0.6	138 ± 11.1
1000.0	72 ± 4.7	83 ± 3.9 ^P	103 ± 3.5	80 ± 2.5 ^P	130 ± 7.4
3333.3	72 ± 9.4 ^P	90 ± 0.5 ^P	84 ± 8.8 ^P	84 ± 2.2 ^P	115 ± 10.8 ^P
6666.7	67 ± 6.2 ^P		80 ± 4.8 ^P		128 ± 2.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1523 ± 14.2	867 ± 37.5	1859 ± 47.0
Positive Control ³	494 ± 7.3	400 ± 5.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	113 ± 5.9
33.3	139 ± 6.8
100.0	144 ± 7.8
333.3	140 ± 3.8
1000.0	118 ± 9.7 ^P
3333.3	146 ± 8.5 ^P
6666.7	
Trial Summary	Negative
Positive Control ²	1980 ± 10.9
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	24 ± 2.1	18 ± 1.5	14 ± 1.2	12 ± 2.3	11 ± 0.7
33.3		17 ± 1.9		7 ± 0.3	
100.0	22 ± 1.5	15 ± 2.5	6 ± 1.2	9 ± 1.5	10 ± 0.3
333.3	17 ± 0.3	13 ± 2.9	8 ± 0.6	10 ± 1.5	11 ± 2.1
1000.0	18 ± 2.7	18 ± 2.8 ^p	5 ± 0.9	11 ± 1.9 ^p	9 ± 1.3
3333.3	20 ± 6.2 ^p	13 ± 2.6 ^p	5 ± 1.2 ^p	6 ± 1.5 ^p	7 ± 0.3 ^p
6666.7	18 ± 0.8 ^p		4 ± 1.2 ^p		7 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	381 ± 11.9	324 ± 3.3			
Positive Control ⁴			213 ± 9.6	269 ± 2.3	364 ± 13.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.2
33.3	14 ± 1.0
100.0	15 ± 3.7
333.3	12 ± 1.5
1000.0	11 ± 1.2 ^p
3333.3	12 ± 1.8 ^p
6666.7	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	243 ± 23.8

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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	14 ± 0.9	21 ± 4.3	25 ± 2.3	25 ± 2.2
33.3		7 ± 0.9		12 ± 2.6	
100.0	12 ± 3.5	8 ± 2.0	6 ± 0.9	12 ± 2.0	26 ± 3.5
333.3	14 ± 3.5	7 ± 2.1	10 ± 1.8	9 ± 1.7	21 ± 2.0
1000.0	13 ± 0.6	7 ± 0.7 ^P	9 ± 2.3	11 ± 0.9 ^P	18 ± 5.7
3333.3	29 ± 4.9 ^P	6 ± 1.0 ^P	11 ± 2.7 ^P	10 ± 2.0 ^P	19 ± 1.3 ^P
6666.7	17 ± 0.8 ^P		11 ± 1.5 ^P		19 ± 1.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			231 ± 41.9	448 ± 11.9	510 ± 40.2
Positive Control ⁵	154 ± 41.5	189 ± 16.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.5
33.3	21 ± 3.2
100.0	17 ± 3.7
333.3	21 ± 4.2
1000.0	18 ± 3.2 ^p
3333.3	15 ± 1.5 ^p
6666.7	
Trial Summary	Negative
Positive Control ⁴	429 ± 17.2
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 ± 4.4	24 ± 2.6	31 ± 4.1	37 ± 6.7	36 ± 3.0
33.3		15 ± 1.5		28 ± 2.3	
100.0	20 ± 2.0	16 ± 1.3	33 ± 3.5	23 ± 3.6	39 ± 2.1
333.3	14 ± 2.9	15 ± 1.2	28 ± 0.7	29 ± 1.2	32 ± 3.8
1000.0	14 ± 2.9	16 ± 2.1 ^P	29 ± 0.9	23 ± 5.2 ^P	31 ± 7.1
3333.3	18 ± 1.0 ^P	17 ± 3.5 ^P	31 ± 2.9 ^P	20 ± 0.6 ^P	35 ± 3.8 ^P
6666.7	17 ± 1.2 ^P		27 ± 0.9 ^P		36 ± 0.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1300 ± 32.9	427 ± 4.3	1723 ± 57.6
Positive Control ⁶	669 ± 20.2	718 ± 58.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	45 ± 4.0
33.3	41 ± 5.8
100.0	30 ± 4.9
333.3	33 ± 4.5
1000.0	34 ± 5.5 ^P
3333.3	34 ± 3.7 ^P
6666.7	
Trial Summary	Negative
Positive Control ²	1321 ± 18.8
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 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 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 ****