

Experiment Number: 025746

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane

CAS Number: 3322-93-8

Date Report Requested: 09/14/2018

Time Report Requested: 13:31:14

NTP Study Number:

025746

Study Result:

Negative

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MutagenicityTest Compound: 1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane
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Time Report Requested: 13:31:14

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	93 ± 4.6	128 ± 1.5	90 ± 4.9	115 ± 7.2	95 ± 4.5
10.0					115 ± 13.5
33.0					117 ± 8.0
100.0	85 ± 1.0	91 ± 4.2	121 ± 7.2	98 ± 2.9	122 ± 2.9
333.0	80 ± 1.0	94 ± 5.5	113 ± 12.4	107 ± 16.4	94 ± 8.2
666.0					
1000.0	79 ± 2.9 ^P	74 ± 8.5 ^P	103 ± 5.5 ^P	80 ± 9.1 ^P	47 ± 12.6 ^P
3333.0	73 ± 1.7 ^P	45 ± 3.2 ^P	112 ± 6.8 ^P	41 ± 6.1 ^P	
10000.0	63 ± 1.2 ^P	49 ± 10.7 ^P	77 ± 9.2 ^P	41 ± 7.1 ^P	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			633 ± 17.6	606 ± 14.9	1695 ± 18.0
Positive Control ³	323 ± 7.0	531 ± 0.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	110 ± 0.7
10.0	99 ± 9.7
33.0	116 ± 7.7
100.0	113 ± 5.2
333.0	97 ± 7.3
666.0	98 ± 17.3
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	1828 ± 104.6
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	17 ± 1.5	25 ± 2.2	9 ± 2.2	9 ± 1.9	9 ± 2.8
10.0					6 ± 0.7
33.0					8 ± 2.1
100.0	7 ± 0.3	16 ± 3.5	10 ± 2.2	11 ± 3.0	8 ± 1.0
333.0	9 ± 1.8	14 ± 2.7	8 ± 0.6	7 ± 0.9	8 ± 2.8
666.0					
1000.0	9 ± 2.2 ^p	17 ± 1.5 ^p	7 ± 0.7 ^p	11 ± 2.9 ^p	6 ± 0.6 ^p
3333.0	9 ± 0.3 ^p	9 ± 0.7 ^p	11 ± 0.7 ^p	9 ± 2.3 ^p	
10000.0	9 ± 0.9 ^p	13 ± 3.2 ^p	12 ± 1.9 ^p	11 ± 1.5 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	298 ± 3.9	604 ± 10.2			
Positive Control ⁴			184 ± 9.3	129 ± 5.6	526 ± 10.1

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.0
10.0	8 ± 2.2
33.0	10 ± 1.3
100.0	13 ± 0.6
333.0	12 ± 2.2
666.0	9 ± 2.7
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	407 ± 19.1

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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	5 ± 1.2	5 ± 1.2	8 ± 2.3	5 ± 1.2	7 ± 0.6
10.0					7 ± 1.5
33.0					7 ± 1.5
100.0	5 ± 1.9	7 ± 1.2	6 ± 1.5	9 ± 2.0	6 ± 0.9
333.0	3 ± 0.9	5 ± 0.9	7 ± 1.7	5 ± 1.0	9 ± 0.3
666.0					
1000.0	6 ± 1.2 ^p	5 ± 0.9 ^p	9 ± 0.7 ^p	9 ± 1.5 ^p	7 ± 1.2 ^p
3333.0	4 ± 0.3 ^p	5 ± 1.5 ^p	6 ± 1.5 ^p	5 ± 1.3 ^p	
10000.0	6 ± 1.5 ^p	4 ± 0.3 ^p	8 ± 1.9 ^p	5 ± 0.3 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			209 ± 15.0	125 ± 0.7	276 ± 34.1
Positive Control ⁵	162 ± 11.3	630 ± 83.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2
10.0	7 ± 1.5
33.0	6 ± 2.2
100.0	8 ± 0.7
333.0	8 ± 0.7
666.0	5 ± 0.9
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ⁴	204 ± 34.3
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	15 ± 2.0	17 ± 0.6	30 ± 4.2	25 ± 3.2	28 ± 3.5
10.0					34 ± 2.6
33.0					27 ± 1.5
100.0	14 ± 0.3	17 ± 2.3	18 ± 2.3	24 ± 2.4	26 ± 1.9
333.0	12 ± 0.0	16 ± 1.0	29 ± 2.1	23 ± 3.8	33 ± 2.5
666.0					
1000.0	15 ± 1.5 ^p	17 ± 1.8 ^p	32 ± 2.0 ^p	29 ± 0.6 ^p	29 ± 2.0 ^p
3333.0	13 ± 1.5 ^p	15 ± 2.5 ^p	34 ± 4.7 ^p	30 ± 0.9 ^p	
10000.0	16 ± 2.6 ^p	14 ± 2.3 ^p	24 ± 3.3 ^p	21 ± 0.6 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			495 ± 28.3	378 ± 23.2	1719 ± 32.7
Positive Control ⁶	609 ± 9.8	864 ± 41.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.8
10.0	18 ± 3.0
33.0	27 ± 1.8
100.0	21 ± 2.6
333.0	27 ± 5.8
666.0	30 ± 1.0
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	1270 ± 51.2
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 ****