

Experiment Number: A92777

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 09/15/2018

Time Report Requested: 12:37:29

NTP Study Number:

A92777

Study Result:

Negative

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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	104 ± 3.3	98 ± 9.0	103 ± 5.5	116 ± 1.9	114 ± 11.1
0.1		103 ± 2.8			
0.3	106 ± 4.7	97 ± 4.0			
1.0	102 ± 5.4	89 ± 6.3			
3.0	96 ± 2.0	105 ± 10.9	100 ± 13.1	109 ± 8.5	105 ± 11.1
10.0	94 ± 1.8	89 ± 12.1	113 ± 5.5	118 ± 1.7	103 ± 5.4
33.0	Toxic		96 ± 7.9	114 ± 5.5	107 ± 7.8
100.0			109 ± 3.8	108 ± 5.5	121 ± 4.1
333.0			Toxic	111 ± 6.4	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1393 ± 56.8
Positive Control ³			808 ± 38.7		
Positive Control ⁴	888 ± 23.3	868 ± 25.6			
Positive Control ⁵				492 ± 8.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	112 ± 7.0
0.1	
0.3	
1.0	
3.0	121 ± 1.2
10.0	106 ± 7.5
33.0	133 ± 32.6
100.0	98 ± 6.1
333.0	117 ± 1.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	543 ± 11.6
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.2	9 ± 1.5	9 ± 0.3	22 ± 1.2	9 ± 2.4
0.1	17 ± 1.0	13 ± 2.0			
0.3	17 ± 1.7	7 ± 0.3			
1.0	11 ± 2.8	8 ± 1.2			
3.0	7 ± 0.9	10 ± 2.2	12 ± 1.8	19 ± 1.5	10 ± 2.3
10.0	13 ± 2.1	10 ± 1.2	11 ± 2.6	17 ± 1.2	8 ± 0.9
33.0			9 ± 2.7	16 ± 2.1	9 ± 0.0
100.0			16 ± 1.8	17 ± 2.7	9 ± 2.2
333.0			Toxic	7 ± 2.4	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					310 ± 4.6
Positive Control ⁶		1102 ± 13.9			
Positive Control ⁴	1133 ± 65.9				
Positive Control ⁵			261 ± 20.0		
Positive Control ⁷				198 ± 11.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.8
0.1	
0.3	
1.0	
3.0	16 ± 2.2
10.0	13 ± 0.7
33.0	16 ± 3.5
100.0	13 ± 2.9
333.0	14 ± 2.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁶	
Positive Control ⁴	
Positive Control ⁵	591 ± 67.2
Positive Control ⁷	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	149 ± 6.8	153 ± 12.9	193 ± 3.8	174 ± 6.6	167 ± 3.8
0.1	149 ± 9.6	165 ± 2.6			
0.3	147 ± 3.5	170 ± 10.2			
1.0	170 ± 1.8	141 ± 4.4			
3.0	153 ± 7.8	160 ± 6.5	189 ± 7.7	167 ± 5.5	173 ± 4.7
10.0	149 ± 4.4	147 ± 10.1	211 ± 8.1	135 ± 5.6	161 ± 4.6
33.0			202 ± 4.1	154 ± 8.8	170 ± 2.8
100.0			208 ± 9.4	160 ± 12.0	178 ± 6.6
333.0			Toxic	176 ± 6.1	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1167 ± 40.4
Positive Control ³			868 ± 17.7		
Positive Control ⁵				770 ± 24.9	
Positive Control ⁸	616 ± 42.5	775 ± 26.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 6.8
0.1	
0.3	
1.0	
3.0	157 ± 1.0
10.0	157 ± 9.5
33.0	162 ± 13.9
100.0	167 ± 8.8
333.0	157 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	869 ± 74.2
Positive Control ⁵	
Positive Control ⁸	

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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 ± 0.7	17 ± 2.3	21 ± 2.7	15 ± 0.9	26 ± 2.6
0.1		20 ± 3.9			
0.3	13 ± 1.2	23 ± 3.0			
1.0	11 ± 0.6	17 ± 2.8			
3.0	10 ± 1.2	16 ± 1.0	15 ± 1.3	19 ± 3.3	26 ± 1.2
10.0	11 ± 1.7	15 ± 2.8	16 ± 1.7	16 ± 1.7	22 ± 3.8
33.0	Toxic		21 ± 2.0	14 ± 1.8	19 ± 3.2
100.0			20 ± 1.9	18 ± 4.1	21 ± 3.5
333.0			Toxic	14 ± 2.3	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1518 ± 70.7
Positive Control ³			668 ± 49.7		
Positive Control ⁹	334 ± 22.1	465 ± 29.1			
Positive Control ⁵				329 ± 14.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 1.2
0.1	
0.3	
1.0	
3.0	19 ± 0.3
10.0	15 ± 0.9
33.0	18 ± 1.8
100.0	18 ± 0.3
333.0	18 ± 3.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	440 ± 15.4
Positive Control ⁹	
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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate N-Methyl-N-Nitro-N-Nitrosoguanidine

7: 10.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****