

Experiment Number: 094942

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dibromodulcitol

CAS Number: 10318-26-0

Date Report Requested: 09/11/2018

Time Report Requested: 07:30:25

NTP Study Number: 094942

Study Result: Positive

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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	233 ± 8.4	126 ± 7.5	165 ± 6.6	114 ± 8.8	160 ± 7.1
10.0		128 ± 5.3		122 ± 7.0	
100.0	277 ± 14.3	214 ± 20.9	247 ± 8.7	254 ± 4.9	234 ± 5.8
333.0	393 ± 16.7	350 ± 18.2	371 ± 6.2	395 ± 11.9	414 ± 16.8
1000.0	611 ± 7.0		731 ± 23.2		809 ± 13.8
3333.0	1059 ± 32.3	575 ± 12.4	1198 ± 29.6	1010 ± 39.1	1206 ± 35.8
10000.0	1186 ± 61.8	28 ± 10.0	1279 ± 57.4	222 ± 27.4	1488 ± 57.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1040 ± 19.3
Positive Control ³			1570 ± 67.1	1219 ± 96.2	
Positive Control ⁴	1741 ± 34.5	1273 ± 20.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	94 ± 4.6
10.0	98 ± 9.8
100.0	222 ± 6.4
333.0	406 ± 26.3
1000.0	
3333.0	978 ± 24.4
10000.0	145 ± 35.2
Trial Summary	Positive
Positive Control ²	1163 ± 41.5
Positive Control ³	
Positive Control ⁴	

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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	9 ± 1.5	23 ± 3.0	9 ± 0.0	7 ± 1.0	10 ± 2.5
10.0		32 ± 2.3		18 ± 1.5	
100.0	63 ± 5.7	112 ± 8.2	79 ± 3.8	116 ± 14.6	59 ± 5.4
333.0	187 ± 2.1	252 ± 27.1	239 ± 7.6	275 ± 27.4	239 ± 24.8
1000.0	357 ± 19.2		507 ± 10.6		515 ± 13.3
3333.0	395 ± 17.7	422 ± 23.6	690 ± 12.3	727 ± 31.2	833 ± 24.3
10000.0	63 ± 6.2	14 ± 6.4	262 ± 7.3	109 ± 23.5	363 ± 53.0
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					68 ± 2.6
Positive Control ³			92 ± 11.5	150 ± 9.3	
Positive Control ⁴	1216 ± 44.9	1207 ± 24.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
10.0	18 ± 4.7
100.0	119 ± 5.4
333.0	282 ± 25.5
1000.0	
3333.0	566 ± 12.9
10000.0	5 ± 1.8
Trial Summary	Positive
Positive Control ²	166 ± 7.5
Positive Control ³	
Positive Control ⁴	

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Test Compound: Dibromodulcitol

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.8	5 ± 2.4	7 ± 0.9
100.0	6 ± 0.3	11 ± 1.5	5 ± 1.8
333.0	6 ± 1.0	9 ± 2.8	7 ± 0.9
1000.0	6 ± 1.2	7 ± 1.5	7 ± 1.7
3333.0	7 ± 1.0	5 ± 1.7	4 ± 0.9
10000.0	4 ± 1.2	4 ± 1.2	5 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ²			58 ± 4.8
Positive Control ³		97 ± 9.1	
Positive Control ⁵	265 ± 24.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.9	29 ± 3.2	39 ± 3.5
100.0	19 ± 1.5	33 ± 3.2	30 ± 6.2
333.0	19 ± 1.2	27 ± 2.3	28 ± 1.2
1000.0	21 ± 3.8	27 ± 0.6	29 ± 1.8
3333.0	17 ± 1.7	28 ± 0.9	26 ± 1.2
10000.0	18 ± 0.9	20 ± 2.2	18 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control ²			875 ± 13.4
Positive Control ³		1121 ± 32.6	
Positive Control ⁶	1669 ± 17.2		

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **