

Experiment Number: 692151

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data

Test Compound: **Dibromomannitol**

CAS Number: **488-41-5**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:35:37**

NTP Study Number:

692151

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Dibromomannitol

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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	102 ± 8.2	116 ± 7.8	141 ± 7.1	114 ± 6.9	113 ± 9.2
100.0	136 ± 11.4	106 ± 2.7	128 ± 12.9	124 ± 10.9	141 ± 15.9
333.0	161 ± 11.1	123 ± 3.8	177 ± 9.0	148 ± 14.1	170 ± 14.5
1000.0	226 ± 23.7	183 ± 7.5	233 ± 1.9	306 ± 6.9	223 ± 8.7
3333.0	326 ± 24.3	197 ± 15.4	306 ± 9.9	252 ± 40.0	328 ± 6.3
6666.0		89 ± 24.0 ^s		244 ± 16.0	
10000.0	216 ± 47.3		236 ± 107.6		295 ± 33.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	422 ± 16.8	361 ± 3.2			
Positive Control ³			445 ± 37.5	1075 ± 61.0	735 ± 17.1

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	135 ± 6.9
100.0	155 ± 9.0
333.0	164 ± 3.2
1000.0	249 ± 2.7
3333.0	348 ± 7.5
6666.0	324 ± 22.9
10000.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	1316 ± 178.5

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Mutagenicity**G06: Ames Summary Data**Test Compound: Dibromomannitol
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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	44 ± 1.5	35 ± 4.6	12 ± 3.3	9 ± 2.3	8 ± 1.9
10.0		29 ± 5.5		7 ± 0.9	
33.0		31 ± 6.9		10 ± 1.3	
100.0	72 ± 8.3	46 ± 5.2	37 ± 3.2	21 ± 5.8	45 ± 5.5
333.0	93 ± 6.0	54 ± 4.3	67 ± 5.5	57 ± 3.2	79 ± 12.9
1000.0	155 ± 2.1	107 ± 3.2	166 ± 9.3	130 ± 8.7	175 ± 13.4
3333.0	251 ± 2.9		252 ± 9.9		289 ± 21.8
10000.0	0 ± 0.0 ^s		49 ± 14.3 ^s		116 ± 25.7 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	537 ± 7.8	449 ± 32.9			
Positive Control ⁴			157 ± 13.0	209 ± 9.0	379 ± 23.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.5
10.0	14 ± 1.7
33.0	19 ± 1.5
100.0	37 ± 0.6
333.0	44 ± 2.0
1000.0	139 ± 10.7
3333.0	
10000.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ⁴	564 ± 13.0

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G06: Ames Summary Data
Test Compound: Dibromomannitol
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Date Report Requested: 09/11/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5	8 ± 0.9	9 ± 1.3
100.0	6 ± 0.6	9 ± 1.3	12 ± 4.2
333.0	6 ± 1.8	8 ± 2.5	8 ± 0.9
1000.0	8 ± 2.6	9 ± 1.7	7 ± 1.2
3333.0	4 ± 1.2	8 ± 0.3	13 ± 3.6
10000.0	4 ± 0.7 ^s	6 ± 1.5	7 ± 2.2
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		182 ± 3.0	343 ± 21.8
Positive Control ⁵	261 ± 19.1		

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Test Compound: Dibromomannitol

CAS Number: 488-41-5

Date Report Requested: 09/11/2018

Time Report Requested: 17:35:37

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.9	44 ± 5.3	18 ± 0.6
100.0	20 ± 4.3	34 ± 2.8	39 ± 5.9
333.0	16 ± 4.3	33 ± 3.0	36 ± 3.8
1000.0	24 ± 4.3	28 ± 6.0	33 ± 4.3
3333.0	21 ± 2.4	29 ± 2.0	30 ± 3.8
10000.0	12 ± 2.6	18 ± 0.7	19 ± 5.5
Trial Summary	Negative	Negative	Equivocal
Positive Control ³		300 ± 8.0	631 ± 38.6
Positive Control ⁶	871 ± 26.2		

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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: 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

s: Slight Toxicity

**** END OF REPORT ****