

Experiment Number: 639748

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Bromo-2-nitro-1,3-propanediol

CAS Number: 52-51-7

Date Report Requested: 09/10/2018

Time Report Requested: 23:42:50

**NTP Study Number:**

639748

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	91 ± 6.1	99 ± 2.0	108 ± 11.5	101 ± 10.6	129 ± 15.7
0.1		108 ± 8.8	115 ± 13.9		
0.3		97 ± 8.5	114 ± 8.1		
1.0	102 ± 1.5	96 ± 1.3	103 ± 7.5	133 ± 11.0	
3.0	86 ± 6.4	103 ± 5.5	94 ± 3.0	126 ± 10.3	115 ± 7.0
10.0	115 ± 4.2	96 ± 7.5	76 ± 6.4	126 ± 14.0	140 ± 7.3
33.0	Toxic			123 ± 4.2	129 ± 13.3
66.0	Toxic				
100.0				12 ± 3.0 <sup>s</sup>	161 ± 9.4
166.0					129 ± 16.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				358 ± 9.0	
Positive Control <sup>4</sup>					366 ± 19.4
Positive Control <sup>5</sup>	1000 ± 39.4	1009 ± 49.2	1011 ± 2.7		

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	117 ± 16.6	133 ± 13.3
0.1		
0.3		
1.0	121 ± 14.4	
3.0	126 ± 6.1	127 ± 5.2
10.0	107 ± 9.9	134 ± 14.4
33.0	142 ± 6.0	127 ± 6.5
66.0		
100.0	5 ± 0.9 <sup>s</sup>	149 ± 6.4
166.0		123 ± 10.3
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	852 ± 9.8	
Positive Control <sup>3</sup>		631 ± 21.6
Positive Control <sup>4</sup>		
Positive Control <sup>5</sup>		

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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 <sup>1</sup>	7 ± 0.9	6 ± 1.9	12 ± 1.3	14 ± 1.3	5 ± 1.2
0.1	6 ± 2.3	5 ± 0.3			
0.3	6 ± 1.3	5 ± 0.3			
1.0	5 ± 0.3	7 ± 2.1	8 ± 1.5		4 ± 0.9
3.0	4 ± 0.9	6 ± 1.2	8 ± 0.9	11 ± 2.0	7 ± 1.5
10.0	5 ± 0.6	4 ± 0.7	11 ± 1.2	8 ± 0.9	5 ± 1.3
33.0			6 ± 0.7	9 ± 0.6	9 ± 2.3
100.0			0 ± 0.0 <sup>s</sup>	8 ± 2.1	Toxic
166.0				9 ± 0.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					56 ± 6.7
Positive Control <sup>4</sup>			64 ± 7.0		
Positive Control <sup>5</sup>	449 ± 32.5	885 ± 45.1			
Positive Control <sup>6</sup>				73 ± 3.3	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.7
0.1	
0.3	
1.0	
3.0	7 ± 2.3
10.0	4 ± 0.3
33.0	3 ± 0.9
100.0	6 ± 0.9
166.0	5 ± 1.2
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	176 ± 17.0
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

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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 <sup>1</sup>	187 ± 4.7	191 ± 4.1	190 ± 12.0	219 ± 7.2	170 ± 4.3
0.1	171 ± 5.7	206 ± 5.7			
0.3	184 ± 6.1	199 ± 22.3			
1.0	179 ± 13.6	201 ± 9.5	176 ± 15.4		189 ± 1.9
3.0	202 ± 12.0	219 ± 10.3	179 ± 10.1	221 ± 3.2	178 ± 13.0
10.0	210 ± 6.4	218 ± 2.7	193 ± 9.3	214 ± 5.7	158 ± 21.0
33.0			185 ± 18.6	194 ± 5.5	194 ± 3.8
100.0			0 ± 0.0 <sup>s</sup>	201 ± 11.7	Toxic
166.0				212 ± 7.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					441 ± 22.0
Positive Control <sup>3</sup>			278 ± 10.4		
Positive Control <sup>4</sup>				386 ± 10.6	
Positive Control <sup>7</sup>	553 ± 26.8	442 ± 106.5			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	180 ± 6.3
0.1	
0.3	
1.0	
3.0	201 ± 9.9
10.0	200 ± 11.1
33.0	148 ± 7.2
100.0	207 ± 5.0
166.0	151 ± 4.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	367 ± 9.7
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	26 ± 0.7	27 ± 2.0	20 ± 3.0	15 ± 1.3	30 ± 0.9
0.1		31 ± 3.7	24 ± 3.7	23 ± 6.2	
0.3		27 ± 5.7	18 ± 3.2	24 ± 2.9	
1.0	26 ± 2.7	26 ± 3.6	25 ± 2.6	16 ± 1.9	30 ± 3.2
3.0	24 ± 3.5	24 ± 4.8	20 ± 2.9	13 ± 0.6	23 ± 3.2
10.0	14 ± 1.5	10 ± 5.2 <sup>s</sup>	0 ± 0.0	2 ± 0.7 <sup>s</sup>	22 ± 2.3
33.0	Toxic				29 ± 2.0
66.0	Toxic				
100.0					1 ± 0.6 <sup>s</sup>
166.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>					223 ± 14.5
Positive Control <sup>8</sup>	527 ± 39.1	659 ± 22.8	528 ± 41.1	506 ± 11.7	



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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	43 ± 2.0	26 ± 3.2	30 ± 5.5	29 ± 0.9	18 ± 3.8
0.1					
0.3					
1.0				26 ± 4.4	
3.0	37 ± 3.2	19 ± 1.2	22 ± 3.1	26 ± 4.6	26 ± 1.9
10.0	36 ± 2.7	25 ± 4.6	24 ± 3.1	23 ± 1.0	26 ± 3.5
33.0	38 ± 4.6	25 ± 2.3	18 ± 2.8	31 ± 4.2	34 ± 2.5
66.0					
100.0	33 ± 6.8	0 ± 0.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	32 ± 6.7
166.0	15 ± 5.4 <sup>s</sup>	0 ± 0.0	0 ± 0.0		28 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>		497 ± 52.9	422 ± 23.6	660 ± 6.9	
Positive Control <sup>3</sup>	129 ± 14.4				490 ± 43.2
Positive Control <sup>8</sup>					

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	27 ± 1.5	19 ± 0.6
0.1		
0.3		
1.0		
3.0	29 ± 2.0	13 ± 1.8
10.0	29 ± 7.3	16 ± 0.0
33.0	36 ± 1.9	17 ± 2.4
66.0		
100.0	29 ± 6.7	20 ± 1.9
166.0	26 ± 3.6	11 ± 2.3
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	281 ± 24.5	503 ± 36.3
Positive Control <sup>8</sup>		

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**LEGEND**

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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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***