

Experiment Number: A78093

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Butyne-1,4-diol

CAS Number: 110-65-6

Date Report Requested: 09/17/2018

Time Report Requested: 23:28:17

**NTP Study Number:**

A78093

**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 <sup>1</sup>	112 ± 2.3	102 ± 9.8	92 ± 4.0	138 ± 8.8	100 ± 2.6
100.0	106 ± 2.2	86 ± 7.9	97 ± 4.7	125 ± 8.0	104 ± 5.3
333.0	115 ± 4.8	78 ± 3.2	99 ± 3.7	121 ± 8.5	92 ± 10.0
1000.0	88 ± 2.2	89 ± 1.3	103 ± 0.3	125 ± 11.7	118 ± 13.1
3333.0	91 ± 8.9	71 ± 4.4	99 ± 3.7	122 ± 4.8	104 ± 14.5
10000.0	91 ± 4.1	88 ± 6.9	85 ± 9.3	113 ± 10.5	89 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					554 ± 25.7
Positive Control <sup>3</sup>			460 ± 23.6		
Positive Control <sup>4</sup>	999 ± 31.5	855 ± 13.0			
Positive Control <sup>5</sup>				1031 ± 50.8	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	110 ± 10.3
100.0	107 ± 7.6
333.0	119 ± 7.4
1000.0	96 ± 6.9
3333.0	114 ± 14.0
10000.0	100 ± 7.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1313 ± 55.4
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>	9 ± 1.2	11 ± 1.9	8 ± 1.2	13 ± 3.0	9 ± 1.2
100.0	9 ± 1.2	10 ± 1.5	8 ± 2.7	11 ± 2.0	8 ± 1.8
333.0	7 ± 0.9	10 ± 2.7	12 ± 1.7	11 ± 0.9	8 ± 2.2
1000.0	5 ± 1.2	8 ± 0.7	7 ± 2.3	12 ± 3.0	6 ± 1.2
3333.0	10 ± 1.2	7 ± 1.2	8 ± 0.7	10 ± 2.5	6 ± 0.7
10000.0	5 ± 0.6	5 ± 1.5	5 ± 1.2	6 ± 0.6	4 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					121 ± 1.3
Positive Control <sup>4</sup>	572 ± 14.4	671 ± 29.0			
Positive Control <sup>5</sup>			163 ± 5.5		
Positive Control <sup>6</sup>				132 ± 3.9	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.8
100.0	7 ± 2.3
333.0	8 ± 0.0
1000.0	10 ± 2.0
3333.0	8 ± 4.1
10000.0	4 ± 0.6
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	245 ± 13.1
Positive Control <sup>6</sup>	

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Test Compound: 2-Butyne-1,4-diol

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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>	145 ± 7.9	132 ± 3.8	133 ± 13.9	184 ± 18.0	129 ± 6.9
100.0	162 ± 13.9	125 ± 6.4	134 ± 3.2	186 ± 5.4	132 ± 2.9
333.0	164 ± 4.2	129 ± 2.4	129 ± 3.2	180 ± 3.4	124 ± 5.5
1000.0	156 ± 8.8	127 ± 6.6	129 ± 9.1	181 ± 2.8	118 ± 4.6
3333.0	149 ± 13.8	140 ± 10.8	149 ± 9.6	200 ± 8.1	136 ± 2.9
10000.0	174 ± 10.3	151 ± 8.3	173 ± 6.0	169 ± 18.0	146 ± 4.9
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					447 ± 2.6
Positive Control <sup>3</sup>			421 ± 10.6		
Positive Control <sup>5</sup>				452 ± 9.8	
Positive Control <sup>7</sup>	351 ± 15.7	385 ± 3.9			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	165 ± 2.9
100.0	173 ± 3.2
333.0	165 ± 5.0
1000.0	175 ± 11.3
3333.0	179 ± 8.2
10000.0	181 ± 15.6
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	602 ± 22.8
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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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 <sup>1</sup>	28 ± 2.3	16 ± 1.9	22 ± 1.9	27 ± 2.4	29 ± 2.8
100.0	29 ± 2.2	22 ± 1.2	21 ± 1.5	31 ± 0.3	22 ± 1.5
333.0	28 ± 1.9	16 ± 0.9	22 ± 1.2	42 ± 1.9	26 ± 3.0
1000.0	27 ± 2.0	18 ± 0.9	27 ± 1.3	31 ± 1.2	27 ± 4.8
3333.0	24 ± 0.3	23 ± 0.7	21 ± 0.7	30 ± 3.4	25 ± 2.2
10000.0	30 ± 2.0	16 ± 1.5	28 ± 3.2	34 ± 3.5	25 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					251 ± 19.4
Positive Control <sup>3</sup>			220 ± 1.5		
Positive Control <sup>8</sup>	466 ± 15.6	217 ± 13.2			
Positive Control <sup>5</sup>				1037 ± 137.8	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	34 ± 4.1
100.0	33 ± 4.5
333.0	40 ± 4.9
1000.0	33 ± 5.4
3333.0	31 ± 3.5
10000.0	34 ± 8.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1041 ± 65.0
Positive Control <sup>8</sup>	
Positive Control <sup>5</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: 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: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*