

Experiment Number: 634065

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Bromoethyl acrylate

CAS Number: 4823-47-6

Date Report Requested: 09/10/2018

Time Report Requested: 22:35:41

**NTP Study Number:**

634065

**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% Rat S9
Vehicle Control <sup>1</sup>	105 ± 6.0	89 ± 5.9	121 ± 8.7	101 ± 1.3	159 ± 13.2
10.0		92 ± 7.3			
33.0	97 ± 7.5	91 ± 3.5		150 ± 4.0	284 ± 7.8
100.0	109 ± 3.2	106 ± 7.1	239 ± 7.2	280 ± 16.3	409 ± 17.7
166.0					523 ± 69.4
333.0	125 ± 11.7	113 ± 6.2	272 ± 38.2	538 ± 66.6	792 ± 19.8
666.0		107 ± 8.8			
1000.0	0 ± 0.0 <sup>s</sup>		393 ± 10.4	803 ± 7.1	1200 ± 26.5
1666.0	Toxic			603 ± 96.4	
2000.0					
3333.0			21 ± 21.0 <sup>s</sup>		
6666.0			Toxic		
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>			1260 ± 14.2	576 ± 4.8	586 ± 21.1
Positive Control <sup>3</sup>	558 ± 19.2	361 ± 20.4			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	98 ± 6.3	145 ± 13.2
10.0		
33.0		277 ± 10.3
100.0	232 ± 10.7	418 ± 30.6
166.0		
333.0	286 ± 12.5	769 ± 91.6
666.0		
1000.0	376 ± 18.8	1143 ± 203.3
1666.0		
2000.0		1445 ± 36.2
3333.0	486 ± 16.1	
6666.0	145 ± 42.0	
Trial Summary	Positive	Positive
Positive Control <sup>2</sup>	1649 ± 10.3	1490 ± 135.4
Positive Control <sup>3</sup>		

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	19 ± 2.9	19 ± 1.9	29 ± 3.5	8 ± 3.0	8 ± 1.2
3.0					
10.0		19 ± 0.9	30 ± 1.7		
33.0	32 ± 8.1	28 ± 0.9	33 ± 7.7		111 ± 9.0
100.0	44 ± 6.4	37 ± 3.5	40 ± 2.2	191 ± 33.2	257 ± 32.4
166.0			54 ± 5.0		
333.0	65 ± 2.0	60 ± 5.0	64 ± 2.7	267 ± 30.8	657 ± 23.9
666.0		15 ± 6.9			
1000.0	Toxic			355 ± 24.8	796 ± 50.5
1666.0	Toxic				123 ± 27.3 <sup>s</sup>
3333.0				0 ± 0.0 <sup>s</sup>	
6666.0				Toxic	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>3</sup>	485 ± 17.1	143 ± 11.9	337 ± 14.6		
Positive Control <sup>4</sup>				281 ± 3.8	168 ± 8.7

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## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.5	9 ± 1.5	14 ± 3.8
3.0	15 ± 0.6		28 ± 5.3
10.0	26 ± 4.2		40 ± 2.5
33.0	85 ± 2.6		135 ± 4.3
100.0	227 ± 6.6	195 ± 2.3	328 ± 5.5
166.0			
333.0	617 ± 6.8	257 ± 34.2	808 ± 15.1
666.0			
1000.0		416 ± 20.9	
1666.0			
3333.0		260 ± 20.8	
6666.0		0 ± 0.0 <sup>s</sup>	
Trial Summary	Positive	Positive	Positive
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>	133 ± 8.5	407 ± 16.7	484 ± 23.3

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	152 ± 6.4	98 ± 4.3	194 ± 1.8	157 ± 9.5	146 ± 4.8
10.0		106 ± 6.4			
33.0	131 ± 4.3	112 ± 1.2		150 ± 12.5	
100.0	110 ± 12.2	96 ± 4.3	200 ± 4.8	157 ± 8.1	162 ± 11.9
333.0	40 ± 2.3	63 ± 4.9	210 ± 8.1	172 ± 8.7	161 ± 5.0
666.0		35 ± 3.6 <sup>s</sup>			
1000.0	0 ± 0.0 <sup>s</sup>		206 ± 6.5	156 ± 14.6	162 ± 13.9
1666.0	Toxic			53 ± 6.3 <sup>s</sup>	
2000.0					
3333.0			0 ± 0.0 <sup>s</sup>		9 ± 8.7 <sup>s</sup>
6666.0			Toxic		0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1070 ± 28.0	884 ± 24.2	1346 ± 93.5
Positive Control <sup>5</sup>	1931 ± 109.1	1353 ± 56.7			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	171 ± 2.5
10.0	
33.0	180 ± 11.6
100.0	183 ± 9.0
333.0	186 ± 0.3
666.0	
1000.0	176 ± 6.4
1666.0	
2000.0	182 ± 3.1
3333.0	
6666.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	1730 ± 34.3
Positive Control <sup>5</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 1.2	17 ± 1.0	30 ± 2.0	29 ± 3.2	28 ± 1.7
10.0		14 ± 0.9			
33.0	11 ± 4.2	13 ± 0.9		22 ± 1.5	
100.0	10 ± 3.4	10 ± 1.0	29 ± 4.4	22 ± 2.1	28 ± 0.7
333.0	7 ± 1.2	6 ± 0.3	22 ± 3.2	18 ± 1.2	23 ± 1.2
666.0		0 ± 0.0 <sup>s</sup>			
1000.0	Toxic		14 ± 2.9	13 ± 3.5	12 ± 0.3
1666.0	Toxic			0 ± 0.0 <sup>s</sup>	
2000.0					
3333.0			0 ± 0.0 <sup>s</sup>		4 ± 1.2
6666.0			Toxic		0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			843 ± 21.7	315 ± 4.7	1029 ± 20.0
Positive Control <sup>6</sup>	1278 ± 52.0	1461 ± 22.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	26 ± 4.8
10.0	
33.0	39 ± 5.9
100.0	32 ± 2.3
333.0	34 ± 4.6
666.0	
1000.0	25 ± 6.7
1666.0	
2000.0	22 ± 2.8
3333.0	
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	993 ± 39.6
Positive Control <sup>6</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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 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 \*\*