

Experiment Number: 689287

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: m-Bromotoluene

CAS Number: 591-17-3

Date Report Requested: 09/13/2018

Time Report Requested: 02:05:06

**NTP Study Number:**

689287

**Study Result:**

Negative

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Test Compound: m-Bromotoluene

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Time Report Requested: 02:05:06

## 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>	150 ± 10.7	120 ± 11.8	153 ± 9.5	170 ± 4.3	172 ± 6.8
1.0		133 ± 7.0			
3.0	156 ± 6.4	120 ± 11.7			
10.0	154 ± 4.7	113 ± 2.7			
33.0	155 ± 5.2	126 ± 16.7			
100.0	120 ± 4.9	108 ± 3.5	154 ± 1.9	175 ± 2.0	160 ± 3.2
166.0	108 ± 3.7				
333.0			127 ± 6.1	164 ± 6.7	159 ± 5.2
1000.0			144 ± 6.9	165 ± 6.4	137 ± 12.3
3333.0			141 ± 4.5 <sup>s</sup>	146 ± 4.9	116 ± 20.7 <sup>s</sup>
6666.0			132 ± 10.5 <sup>s</sup>		130 ± 16.7 <sup>s</sup>
10000.0				102 ± 9.0 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					778 ± 32.0
Positive Control <sup>3</sup>			460 ± 5.0		
Positive Control <sup>4</sup>	441 ± 8.7	357 ± 28.7			
Positive Control <sup>5</sup>				570 ± 25.8	

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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>	124 ± 9.7	157 ± 7.8
1.0		
3.0		
10.0		
33.0	116 ± 7.2	
100.0	112 ± 5.5	158 ± 14.0
166.0		
333.0	105 ± 12.9	154 ± 9.0
1000.0	116 ± 6.9	162 ± 7.0
3333.0	Toxic	127 ± 5.8
6666.0		
10000.0		118 ± 14.0 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	797 ± 48.0	
Positive Control <sup>3</sup>		720 ± 25.2
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>	41 ± 4.0	45 ± 2.0	15 ± 1.3	15 ± 1.5	13 ± 2.9
1.0		43 ± 4.9			
3.0	34 ± 2.3	43 ± 5.2			
10.0	32 ± 2.7	38 ± 1.5			
33.0	31 ± 1.0	34 ± 3.1			
100.0	22 ± 0.7	17 ± 3.8 <sup>s</sup>	13 ± 2.6	18 ± 3.9	13 ± 2.0
166.0	8 ± 1.8 <sup>s</sup>				
333.0			14 ± 3.2	15 ± 1.3	10 ± 2.2
1000.0			14 ± 2.4	19 ± 0.7	5 ± 0.6
3333.0			7 ± 1.0 <sup>s</sup>	13 ± 0.6	8 ± 1.3 <sup>s</sup>
6666.0			12 ± 1.9 <sup>s</sup>		10 ± 0.9 <sup>s</sup>
10000.0				13 ± 2.0 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>	515 ± 8.7	355 ± 9.2			
Positive Control <sup>3</sup>					236 ± 23.4
Positive Control <sup>5</sup>			154 ± 14.0		
Positive Control <sup>6</sup>				175 ± 10.3	

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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>	11 ± 2.1
1.0	
3.0	
10.0	
33.0	
100.0	10 ± 2.5
166.0	
333.0	11 ± 2.8
1000.0	8 ± 2.7
3333.0	13 ± 3.8
6666.0	
10000.0	9 ± 1.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	505 ± 11.0
Positive Control <sup>6</sup>	

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## Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.3	17 ± 2.8	17 ± 3.2
3.0	12 ± 1.5		
10.0	14 ± 1.2		
33.0	13 ± 0.6		
100.0	10 ± 1.7	16 ± 2.1	18 ± 2.2
166.0	7 ± 1.0 <sup>s</sup>		
333.0		10 ± 2.2	12 ± 1.7
1000.0		12 ± 1.0	9 ± 2.0
3333.0		10 ± 1.3	10 ± 2.4
10000.0		10 ± 1.2 <sup>s</sup>	10 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			56 ± 5.5
Positive Control <sup>5</sup>		49 ± 0.7	
Positive Control <sup>7</sup>	691 ± 38.8		

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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>	195 ± 3.8	190 ± 7.8	205 ± 9.2	193 ± 4.8	195 ± 3.2
1.0		200 ± 3.2			
3.0	201 ± 0.9	179 ± 18.1			
10.0	193 ± 4.0	199 ± 17.1			
33.0	186 ± 2.4	177 ± 6.4			
100.0	189 ± 7.9	176 ± 13.0	216 ± 10.2	200 ± 6.0	196 ± 5.5
166.0	109 ± 16.8 <sup>s</sup>				
333.0			212 ± 4.8	194 ± 5.6	183 ± 5.9
1000.0			205 ± 2.9	203 ± 6.4	164 ± 14.0
3333.0			184 ± 11.7	182 ± 15.2	83 ± 49.4 <sup>s</sup>
6666.0			196 ± 11.4 <sup>s</sup>		144 ± 5.0 <sup>s</sup>
10000.0				154 ± 6.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					623 ± 31.5
Positive Control <sup>3</sup>			389 ± 15.7		
Positive Control <sup>5</sup>				387 ± 5.2	
Positive Control <sup>7</sup>	754 ± 19.8	407 ± 16.6			

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## Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	133 ± 7.2	195 ± 6.6
1.0		
3.0		
10.0		
33.0	173 ± 19.0	
100.0	157 ± 5.0	189 ± 11.3
166.0		
333.0	140 ± 4.9	169 ± 7.6
1000.0	114 ± 6.1 <sup>s</sup>	175 ± 5.2
3333.0	0 ± 0.0 <sup>s</sup>	167 ± 6.2
6666.0		
10000.0		102 ± 41.0 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	455 ± 42.9	
Positive Control <sup>3</sup>		449 ± 32.1
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>	19 ± 0.7	21 ± 3.0	42 ± 5.5	49 ± 3.4	42 ± 4.0
1.0		17 ± 1.2			
3.0	20 ± 3.4	21 ± 2.2			
10.0	20 ± 2.6	22 ± 3.3			
33.0	15 ± 2.5	22 ± 1.2			
100.0	15 ± 1.5	15 ± 1.5 <sup>s</sup>	39 ± 3.2	40 ± 2.2	39 ± 4.4
166.0	13 ± 1.2 <sup>s</sup>				
333.0			29 ± 5.5	47 ± 1.5	39 ± 5.9
1000.0			27 ± 1.0	32 ± 2.8	31 ± 5.7
3333.0			24 ± 1.9 <sup>s</sup>	18 ± 0.9	14 ± 7.1 <sup>s</sup>
6666.0			27 ± 6.1 <sup>s</sup>		33 ± 7.9 <sup>s</sup>
10000.0				19 ± 3.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					732 ± 34.9
Positive Control <sup>3</sup>			301 ± 45.2	143 ± 2.8	
Positive Control <sup>8</sup>	468 ± 16.5	475 ± 46.1			

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## Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 1.5	35 ± 5.7
1.0		
3.0		
10.0		
33.0	25 ± 1.0	
100.0	26 ± 4.1	29 ± 1.0
166.0		
333.0	30 ± 3.3	28 ± 1.3
1000.0	27 ± 2.2	33 ± 4.7
3333.0	0 ± 0.0 <sup>s</sup>	23 ± 2.6
6666.0		
10000.0		31 ± 3.3 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	789 ± 27.5	
Positive Control <sup>3</sup>		393 ± 30.2
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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

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 \*\*