

Experiment Number: 217395

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

**G06: Ames Summary Data**

Test Compound: **p-Bromotoluene**

CAS Number: **106-38-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **20:53:51**

**NTP Study Number:**

217395

**Study Result:**

Negative

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Mutagenicity

## G06: Ames Summary Data

Test Compound: p-Bromotoluene

CAS Number: 106-38-7

Date Report Requested: 09/14/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	138 ± 4.6	130 ± 8.7	149 ± 13.0	102 ± 8.4	169 ± 8.5
3.0	149 ± 4.6	122 ± 10.7			
10.0	159 ± 2.6	121 ± 9.8			
33.0	144 ± 11.6	136 ± 16.2		128 ± 7.1	
100.0	120 ± 4.0	98 ± 6.0	143 ± 5.8	111 ± 11.2	157 ± 6.4
166.0		119 ± 8.4			
333.0	18 ± 17.7 <sup>s</sup>		143 ± 9.1	131 ± 2.3	158 ± 2.4
1000.0			95 ± 8.5	124 ± 4.0	124 ± 11.6
1666.0				111 ± 8.1 <sup>s</sup>	
3333.0			Toxic		138 ± 6.4
6666.0			Toxic		
10000.0					83 ± 41.4 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			563 ± 36.8	406 ± 7.3	
Positive Control <sup>4</sup>	425 ± 16.3	378 ± 5.8			
Positive Control <sup>5</sup>					542 ± 31.3

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## Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	140 ± 13.9	114 ± 5.5	165 ± 11.9
3.0			
10.0			
33.0		113 ± 2.3	
100.0	127 ± 10.4	110 ± 4.8	140 ± 12.8
166.0			
333.0	146 ± 11.6	111 ± 9.2	110 ± 3.5
1000.0	126 ± 7.2	86 ± 7.4	114 ± 10.7
1666.0		85 ± 7.9 <sup>s</sup>	
3333.0	52 ± 27.4 <sup>s</sup>		108 ± 2.7
6666.0	Toxic		
10000.0			111 ± 6.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	845 ± 38.4	770 ± 18.6	
Positive Control <sup>3</sup>			756 ± 60.6
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 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	31 ± 2.3	28 ± 2.5	10 ± 0.6	10 ± 1.8	9 ± 0.7
3.0	29 ± 4.7	29 ± 2.5			
10.0	27 ± 3.7	22 ± 4.5			
33.0	21 ± 0.6	26 ± 0.0		7 ± 0.3	
100.0	22 ± 0.6	12 ± 2.6	10 ± 1.5	7 ± 1.2	12 ± 2.1
166.0		10 ± 0.3			
333.0	0 ± 0.0 <sup>s</sup>		9 ± 1.7	7 ± 1.2	11 ± 1.0
1000.0			7 ± 1.8	5 ± 1.5	9 ± 0.6
1666.0				6 ± 1.7	
3333.0			0 ± 0.0 <sup>s</sup>		8 ± 1.5
6666.0			0 ± 0.0 <sup>s</sup>		
10000.0					6 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>	368 ± 9.1	305 ± 2.3			
Positive Control <sup>3</sup>					
Positive Control <sup>5</sup>			143 ± 3.3	123 ± 11.0	
Positive Control <sup>6</sup>					163 ± 17.3

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## Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 2.1	9 ± 0.9	13 ± 1.0
3.0			
10.0			
33.0		6 ± 1.9	
100.0	11 ± 2.7	8 ± 1.2	9 ± 3.8
166.0			
333.0	7 ± 2.1	8 ± 1.2	10 ± 2.9
1000.0	7 ± 1.3	7 ± 2.0	8 ± 0.7
1666.0		6 ± 1.2	
3333.0	4 ± 2.2		12 ± 0.3
6666.0	Toxic		
10000.0			7 ± 1.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>			
Positive Control <sup>3</sup>	209 ± 21.1	170 ± 14.5	
Positive Control <sup>5</sup>			487 ± 23.1
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>	12 ± 1.2	10 ± 0.7	10 ± 2.1
3.0	13 ± 2.0		
10.0	15 ± 6.7		
33.0	8 ± 0.6		
100.0	9 ± 0.9	12 ± 1.9	9 ± 0.9
333.0	4 ± 1.7 <sup>s</sup>	12 ± 1.2	8 ± 1.0
1000.0		12 ± 1.5	10 ± 0.9
3333.0		9 ± 1.2	6 ± 1.2 <sup>s</sup>
10000.0		8 ± 1.5 <sup>s</sup>	7 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			48 ± 9.1
Positive Control <sup>5</sup>		40 ± 4.6	
Positive Control <sup>7</sup>	642 ± 95.6		

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	168 ± 6.7	191 ± 5.5	187 ± 6.4	198 ± 4.2	167 ± 1.7
3.0	168 ± 6.8	177 ± 4.7			
10.0	165 ± 3.8	204 ± 9.6			
33.0	162 ± 7.8	192 ± 4.3		169 ± 4.6	
100.0	131 ± 15.4	188 ± 8.3	204 ± 9.4	178 ± 3.4	194 ± 3.8
166.0		144 ± 11.2 <sup>s</sup>			
333.0	0 ± 0.0 <sup>s</sup>		178 ± 9.5	179 ± 5.9	169 ± 17.0
1000.0			146 ± 3.2	161 ± 19.0	140 ± 14.3
1666.0				159 ± 9.9 <sup>s</sup>	
3333.0			13 ± 13.3 <sup>s</sup>		121 ± 12.3
6666.0			Toxic		
10000.0					98 ± 18.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			530 ± 26.0	354 ± 10.2	
Positive Control <sup>5</sup>					428 ± 17.1
Positive Control <sup>7</sup>	654 ± 48.9	677 ± 15.2			

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## Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	205 ± 8.2	173 ± 13.6	200 ± 4.9
3.0			
10.0			
33.0		167 ± 3.6	
100.0	182 ± 8.5	179 ± 7.5	200 ± 3.3
166.0			
333.0	143 ± 13.2	164 ± 14.0	165 ± 11.6
1000.0	115 ± 3.8 <sup>s</sup>	155 ± 3.8	160 ± 4.4
1666.0		140 ± 8.8	
3333.0	28 ± 28.3 <sup>s</sup>		127 ± 1.9
6666.0	34 ± 34.0 <sup>s</sup>		
10000.0			96 ± 16.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	644 ± 26.6	500 ± 12.6	
Positive Control <sup>3</sup>			366 ± 15.4
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 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	25 ± 2.3	17 ± 1.8	36 ± 1.9	33 ± 2.0	63 ± 0.9
3.0	26 ± 2.5	19 ± 1.5			
10.0	26 ± 5.5	18 ± 1.7			
33.0	23 ± 1.2	20 ± 1.8		34 ± 5.8	
100.0	15 ± 1.8 <sup>s</sup>	14 ± 1.5	30 ± 1.2	31 ± 3.8	62 ± 2.9
166.0		14 ± 4.5			
333.0	0 ± 0.0 <sup>s</sup>		31 ± 3.6	25 ± 4.5	44 ± 2.7
1000.0			31 ± 2.7	29 ± 1.2	38 ± 7.3
1666.0				20 ± 3.2	
3333.0			18 ± 6.1 <sup>s</sup>		28 ± 1.7
6666.0			11 ± 10.7 <sup>s</sup>		
10000.0					16 ± 2.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			610 ± 16.6	372 ± 19.6	151 ± 12.5
Positive Control <sup>8</sup>	510 ± 1.5	498 ± 17.4			

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## Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 4.8	31 ± 4.4	36 ± 3.8
3.0			
10.0			
33.0		26 ± 1.2	
100.0	25 ± 1.8	41 ± 0.7	30 ± 0.3
166.0			
333.0	26 ± 2.6	32 ± 2.4	31 ± 3.0
1000.0	28 ± 1.5	31 ± 1.3	34 ± 3.7
1666.0		33 ± 1.3	
3333.0	0 ± 0.0 <sup>s</sup>		26 ± 2.9
6666.0	0 ± 0.0 <sup>s</sup>		
10000.0			11 ± 5.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	916 ± 42.1	691 ± 22.1	
Positive Control <sup>3</sup>			427 ± 40.4
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 \*\*