

Experiment Number: 397650

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

**G06: Ames Summary Data**

Test Compound: **Benzethonium chloride**

CAS Number: 121-54-0

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

Time Report Requested: **16:15:00**

**NTP Study Number:**

397650

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Benzethonium chloride  
CAS Number: 121-54-0

Date Report Requested: 09/14/2018

Time Report Requested: 16:15:00

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	90 ± 1.8	101 ± 9.0	128 ± 9.3	142 ± 4.7	109 ± 7.1
0.01	87 ± 0.3	92 ± 3.8			
0.03	85 ± 4.2	107 ± 0.3			
0.1	82 ± 5.2	103 ± 5.3			
0.3	94 ± 4.7	99 ± 4.3			
1.0	92 ± 5.0	66 ± 1.7	109 ± 7.4	122 ± 8.0	105 ± 1.5
3.3			121 ± 6.1	132 ± 10.1	100 ± 3.2
10.0			118 ± 13.0	144 ± 6.9	94 ± 2.3
33.0			123 ± 8.7	141 ± 1.3	84 ± 4.1
100.0			128 ± 6.0	Toxic	34 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1264 ± 205.4	2105 ± 62.1	1636 ± 125.5
Positive Control <sup>3</sup>	936 ± 11.1	1024 ± 18.1			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	152 ± 5.2
0.01	
0.03	
0.1	
0.3	
1.0	130 ± 5.9
3.3	133 ± 16.3
10.0	140 ± 14.2
33.0	144 ± 8.8
100.0	143 ± 15.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1021 ± 63.2
Positive Control <sup>3</sup>	

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Test Compound: Benzethonium chloride

CAS Number: 121-54-0

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 1.2	4 ± 1.5	25 ± 1.5	7 ± 1.7	17 ± 1.5
0.01	14 ± 1.9	4 ± 0.7			
0.03	16 ± 3.7	4 ± 1.2			
0.1	14 ± 3.2	5 ± 0.7			
0.3	8 ± 1.5	2 ± 1.2			
1.0	8 ± 0.6	2 ± 0.6	16 ± 0.9	5 ± 1.9	18 ± 3.3
3.3			20 ± 2.0	6 ± 2.5	26 ± 1.3
10.0			17 ± 1.5	5 ± 1.7	15 ± 4.2
33.0			8 ± 1.5	4 ± 0.7	9 ± 0.9
100.0			Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			184 ± 15.0	60 ± 8.4	125 ± 10.7
Positive Control <sup>3</sup>	942 ± 36.6	446 ± 18.0			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.0
0.01	
0.03	
0.1	
0.3	
1.0	4 ± 1.8
3.3	5 ± 1.5
10.0	3 ± 0.9
33.0	4 ± 0.7
100.0	Toxic
Trial Summary	Negative
Positive Control <sup>4</sup>	97 ± 15.5
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Benzethonium chloride

CAS Number: 121-54-0

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 1.5	10 ± 1.2	19 ± 0.3	12 ± 1.5	24 ± 2.4
0.01	9 ± 0.6	13 ± 0.7			
0.03	10 ± 2.8	9 ± 1.5			
0.1	14 ± 1.0	7 ± 0.9			
0.3	16 ± 0.7	7 ± 2.3			
1.0	11 ± 3.8	7 ± 1.2	23 ± 3.0	12 ± 1.5	22 ± 2.4
3.3			20 ± 3.4	15 ± 1.7	26 ± 4.3
10.0			13 ± 2.0	7 ± 2.1	14 ± 0.6
33.0			13 ± 2.5	12 ± 1.7	13 ± 1.2
100.0			Toxic	Toxic	1 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			432 ± 29.1	122 ± 43.3	356 ± 21.3
Positive Control <sup>5</sup>	207 ± 94.2	177 ± 104.5			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.5
0.01	
0.03	
0.1	
0.3	
1.0	13 ± 1.0
3.3	10 ± 2.1
10.0	9 ± 2.4
33.0	15 ± 2.6
100.0	13 ± 2.5
Trial Summary	Negative
Positive Control <sup>4</sup>	197 ± 15.3
Positive Control <sup>5</sup>	

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Test Compound: Benzethonium chloride

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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>	20 ± 1.8	14 ± 4.1	22 ± 3.0	21 ± 0.9	19 ± 2.5
0.01	21 ± 0.7	7 ± 1.2			
0.03	18 ± 1.8	6 ± 0.7			
0.1	19 ± 2.1	7 ± 0.3			
0.3	18 ± 0.9	10 ± 1.8			
1.0	22 ± 1.5	10 ± 4.2	21 ± 2.0	17 ± 1.9	15 ± 1.9
3.3			24 ± 3.2	20 ± 2.4	16 ± 2.9
10.0			24 ± 1.5	16 ± 1.8	16 ± 1.7
33.0			16 ± 0.7	24 ± 1.2	10 ± 2.1
100.0			18 ± 0.7	18 ± 3.5	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			872 ± 70.4	1150 ± 21.3	1152 ± 40.1
Positive Control <sup>6</sup>	180 ± 63.8	123 ± 9.0			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 3.2
0.01	
0.03	
0.1	
0.3	
1.0	28 ± 4.1
3.3	20 ± 0.7
10.0	20 ± 1.3
33.0	19 ± 2.9
100.0	21 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	719 ± 45.8
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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