

Experiment Number: A14774

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

**G06: Ames Summary Data**

Test Compound: **Bupivacaine**

CAS Number: **38396-39-3**

Date Report Requested: **09/16/2018**

Time Report Requested: **01:27:03**

**NTP Study Number:**

A14774

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Bupivacaine

CAS Number: 38396-39-3

Date Report Requested: 09/16/2018

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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>	105 ± 6.3	125 ± 8.1	125 ± 8.1	96 ± 6.2	126 ± 11.0
100.0	108 ± 9.7	131 ± 11.0	124 ± 5.7	105 ± 2.2	122 ± 3.0
333.0	107 ± 3.6	116 ± 4.1	129 ± 9.0	109 ± 9.4	113 ± 2.9
1000.0	102 ± 5.2	115 ± 3.8	126 ± 2.7	99 ± 6.8	124 ± 10.4
3333.0	99 ± 8.9	128 ± 9.0	117 ± 1.7	100 ± 4.3	119 ± 2.2
10000.0	46 ± 15.5 <sup>s</sup>	125 ± 9.9 <sup>s</sup>	117 ± 7.7 <sup>s</sup>	56 ± 16.8 <sup>s</sup>	121 ± 6.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					859 ± 22.9
Positive Control <sup>3</sup>			757 ± 25.9		
Positive Control <sup>4</sup>	1256 ± 27.1	903 ± 11.0			
Positive Control <sup>5</sup>				671 ± 16.5	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	101 ± 4.0
100.0	88 ± 6.4
333.0	96 ± 6.1
1000.0	105 ± 4.3
3333.0	103 ± 5.0
10000.0	49 ± 3.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	841 ± 17.7
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Bupivacaine

CAS Number: 38396-39-3

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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>	8 ± 0.9	11 ± 1.5	11 ± 1.7	14 ± 1.2	15 ± 1.9
100.0	11 ± 0.7	10 ± 0.3	10 ± 0.3	13 ± 2.7	15 ± 2.7
333.0	14 ± 2.3	8 ± 1.2	11 ± 1.8	10 ± 1.0	14 ± 1.2
1000.0	13 ± 0.6	8 ± 0.9	9 ± 0.6	16 ± 2.3	13 ± 2.5
3333.0	9 ± 2.8	8 ± 3.0	9 ± 2.4	14 ± 2.3	12 ± 2.2
10000.0	4 ± 1.0 <sup>s</sup>	9 ± 1.7 <sup>s</sup>	8 ± 1.0 <sup>s</sup>	8 ± 2.3 <sup>s</sup>	9 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					145 ± 4.2
Positive Control <sup>4</sup>	933 ± 16.7	955 ± 13.0			
Positive Control <sup>5</sup>			126 ± 10.5		
Positive Control <sup>6</sup>				186 ± 19.1	

Experiment Number: A14774

Test Type: Genetic Toxicology - Bacterial  
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G06: Ames Summary Data

Test Compound: Bupivacaine

CAS Number: 38396-39-3

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.5
100.0	10 ± 1.5
333.0	10 ± 1.2
1000.0	11 ± 1.7
3333.0	11 ± 2.1
10000.0	9 ± 2.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	289 ± 25.2
Positive Control <sup>6</sup>	

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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>	106 ± 11.0	116 ± 6.4	134 ± 10.3	139 ± 5.2	149 ± 5.6
100.0	129 ± 8.5	121 ± 3.8	134 ± 2.6	163 ± 0.9	147 ± 15.8
333.0	132 ± 9.1	128 ± 4.6	133 ± 4.0	118 ± 6.8	152 ± 6.8
1000.0	133 ± 6.6	129 ± 8.3	144 ± 13.9	139 ± 6.2	145 ± 9.9
3333.0	119 ± 7.6	116 ± 8.2	116 ± 7.8	132 ± 6.7	149 ± 8.3
10000.0	92 ± 6.9 <sup>s</sup>	101 ± 3.8 <sup>s</sup>	120 ± 1.5 <sup>s</sup>	87 ± 6.1 <sup>s</sup>	116 ± 8.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					713 ± 11.3
Positive Control <sup>3</sup>			631 ± 21.4		
Positive Control <sup>5</sup>				627 ± 20.0	
Positive Control <sup>7</sup>	513 ± 5.5	518 ± 8.2			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	112 ± 1.3
100.0	120 ± 9.7
333.0	118 ± 5.2
1000.0	129 ± 15.9
3333.0	123 ± 11.5
10000.0	90 ± 15.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	678 ± 16.5
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>	16 ± 2.1	15 ± 2.5	13 ± 2.6	15 ± 3.3	22 ± 2.4
100.0	16 ± 1.5	15 ± 2.6	10 ± 0.0	17 ± 1.7	20 ± 0.9
333.0	10 ± 1.7	13 ± 2.1	13 ± 0.7	19 ± 0.9	20 ± 0.9
1000.0	16 ± 1.0	15 ± 1.3	14 ± 2.7	22 ± 3.8	16 ± 1.2
3333.0	13 ± 2.0	13 ± 0.9	17 ± 2.0	16 ± 1.2	12 ± 0.3
10000.0	5 ± 0.3 <sup>s</sup>	10 ± 0.6 <sup>s</sup>	8 ± 1.8 <sup>s</sup>	8 ± 1.2 <sup>s</sup>	14 ± 3.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					725 ± 21.5
Positive Control <sup>3</sup>			640 ± 11.9		
Positive Control <sup>8</sup>	635 ± 14.5	359 ± 22.6			
Positive Control <sup>5</sup>				1463 ± 36.7	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 2.5
100.0	24 ± 3.7
333.0	21 ± 3.7
1000.0	25 ± 2.9
3333.0	22 ± 4.4
10000.0	10 ± 0.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1686 ± 51.6
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: Dimethyl Sulfoxide
- 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
- s: Slight Toxicity

\*\* END OF REPORT \*\*