

Experiment Number: **G10690**

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

**G06: Ames Summary Data**

Test Compound: **Chlorhexidine**

CAS Number: **55-56-1**

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

Time Report Requested: **03:06:59**

**NTP Study Number:**

G10690

**Study Result:**

Negative

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<b>Strain: TA100</b>				
<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	90 ± 9.7	100 ± 3.5	77 ± 6.8	104 ± 3.8
0.4		98 ± 6.5		
0.8	90 ± 3.2	83 ± 9.8		
1.0	73 ± 5.0	87 ± 5.6		
2.0	52 ± 2.1	58 ± 8.1	98 ± 8.7	96 ± 4.4
4.0		68 ± 3.6		90 ± 11.3
5.0	8 ± 5.5 <sup>s</sup>		68 ± 4.9	
10.0	Toxic	5 ± 3.8 <sup>s</sup>	64 ± 3.5	90 ± 2.6
12.5	Toxic		72 ± 4.4	80 ± 11.0
25.0			47 ± 5.7	43 ± 1.9 <sup>s</sup>
50.0			10 ± 0.0 <sup>s</sup>	36 ± 14.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	608 ± 8.2	641 ± 51.3		
Positive Control <sup>3</sup>			278 ± 5.5	743 ± 24.6

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<b>Strain: TA98</b>				
<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	19 ± 3.2	15 ± 3.0	21 ± 1.5	26 ± 2.6
0.4		14 ± 2.7		
0.8	21 ± 1.2	23 ± 2.9		
1.0	20 ± 3.3	18 ± 4.0		
2.0	17 ± 1.8	12 ± 2.1	22 ± 1.9	23 ± 2.5
4.0		10 ± 0.9		27 ± 3.5
5.0	3 ± 1.2 <sup>s</sup>		26 ± 1.7	
10.0	Toxic	8 ± 3.8	22 ± 2.8	27 ± 0.7
12.5	Toxic		30 ± 4.7	25 ± 2.7
25.0			18 ± 1.2	15 ± 1.2
50.0			Toxic	15 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1729 ± 159.2	2137 ± 36.7
Positive Control <sup>5</sup>	456 ± 17.7	429 ± 14.6		

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**Strain: E. coli WP2 uvrA pKM101**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	115 ± 13.2	122 ± 1.3	125 ± 5.5	132 ± 4.1
0.4	126 ± 2.2	117 ± 2.8		
0.8	108 ± 8.4	125 ± 13.5		
1.0	119 ± 5.2	117 ± 11.7		
2.0	119 ± 3.3	109 ± 9.7	137 ± 11.4	131 ± 5.1
4.0	102 ± 2.1	74 ± 3.5		136 ± 4.0
5.0			125 ± 4.7	
10.0	2 ± 0.0 <sup>s</sup>	Toxic	119 ± 5.2	119 ± 0.7
12.5			98 ± 11.3	117 ± 11.9
25.0			67 ± 4.7	74 ± 7.9
50.0			9 ± 1.0 <sup>s</sup>	6 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>				
Positive Control <sup>7</sup>	1797 ± 68.4	1856 ± 126.2		
Positive Control <sup>8</sup>			1682 ± 50.4	1649 ± 16.9

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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 Sodium Azide

3: 2.0 ug/Plate Other Positive Control

4: 2.0 ug/Plate 2-Aminoanthracene

5: 3.0 ug/Plate 2-Nitrofluorene

6: 0.025 ug/Plate Other Positive Control

7: 0.25 ug/Plate Other Positive Control

8: 20.0 ug/Plate 2-Aminoanthracene

s: Slight Toxicity

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