

Experiment Number: 189743

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

**G06: Ames Summary Data**

Test Compound: **Chloral**

CAS Number: **75-87-6**

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

Time Report Requested: **01:32:48**

**NTP Study Number:**

189743

**Study Result:**

Weakly Positive

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CAS Number: 75-87-6

**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 5% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	127 ± 10.2	117 ± 9.4	106 ± 12.3	97 ± 9.6	102 ± 9.0
100.0	135 ± 4.6	135 ± 9.2	110 ± 5.8	114 ± 7.5	123 ± 11.0
333.0	139 ± 3.3	137 ± 4.2	127 ± 13.0	115 ± 8.5	134 ± 14.7
1000.0	156 ± 12.8	163 ± 7.1	158 ± 11.0	141 ± 6.7	164 ± 1.5
3333.0	163 ± 5.5	166 ± 6.0	168 ± 4.3	158 ± 9.2	175 ± 5.6
10000.0	25 ± 3.0 <sup>s</sup>	Toxic	Toxic	103 ± 17.9 <sup>s</sup>	14 ± 5.5 <sup>s</sup>
Trial Summary	Negative	Equivocal	Equivocal	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				3391 ± 49.0	890 ± 7.4
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	1036 ± 40.5	1407 ± 57.7	1142 ± 60.7		

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 5% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	100 ± 0.7	103 ± 2.2	106 ± 12.8	98 ± 5.4	112 ± 10.5
100.0	109 ± 14.7	106 ± 6.1	122 ± 3.4	109 ± 6.2	121 ± 9.6
333.0	122 ± 10.2	117 ± 7.8	144 ± 3.1	121 ± 9.0	137 ± 4.6
1000.0	150 ± 4.9	160 ± 7.5	165 ± 11.6	148 ± 12.1	153 ± 12.5
3333.0	177 ± 2.8	197 ± 4.6	197 ± 8.0	170 ± 12.4	159 ± 14.3
10000.0	192 ± 9.5 <sup>s</sup>	156 ± 8.5 <sup>s</sup>	203 ± 16.1 <sup>s</sup>	122 ± 3.8 <sup>s</sup>	34 ± 10.5 <sup>s</sup>
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive	Equivocal
Positive Control <sup>2</sup>				3357 ± 74.2	833 ± 28.5
Positive Control <sup>3</sup>	641 ± 3.8	2380 ± 55.3			
Positive Control <sup>4</sup>			911 ± 22.4		
Positive Control <sup>5</sup>					

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	106 ± 5.1	102 ± 9.2	102 ± 5.0
100.0	112 ± 9.0	116 ± 4.6	138 ± 28.3
333.0	130 ± 11.4	129 ± 6.2	130 ± 12.9
1000.0	147 ± 9.8	142 ± 4.5	150 ± 5.6
3333.0	174 ± 6.1	172 ± 7.9	185 ± 3.5
10000.0	118 ± 18.0 <sup>s</sup>	153 ± 11.3 <sup>s</sup>	171 ± 9.6 <sup>s</sup>
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>	620 ± 20.1	2387 ± 37.6	
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			2225 ± 78.9
Positive Control <sup>5</sup>			

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 5.2	12 ± 2.0	11 ± 1.5
100.0	34 ± 3.2	15 ± 0.6	11 ± 2.1
333.0	46 ± 3.5	12 ± 3.3	13 ± 2.8
1000.0	35 ± 2.0	11 ± 0.9	16 ± 2.8
3333.0	37 ± 2.1	12 ± 0.3	14 ± 2.3
10000.0	Toxic	12 ± 0.3 <sup>s</sup>	13 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			98 ± 9.0
Positive Control <sup>3</sup>		73 ± 4.4	
Positive Control <sup>5</sup>	1097 ± 27.8		

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Date Report Requested: 09/14/2018  
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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	117 ± 8.6	133 ± 3.3	161 ± 2.1
100.0	122 ± 7.6	172 ± 4.8	157 ± 6.7
333.0	105 ± 7.5	159 ± 11.9	155 ± 17.8
1000.0	112 ± 6.9	156 ± 3.3	155 ± 1.7
3333.0	15 ± 4.3	156 ± 0.6	142 ± 6.8
10000.0	Toxic	2 ± 0.9 <sup>s</sup>	12 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			393 ± 10.6
Positive Control <sup>3</sup>		400 ± 6.2	
Positive Control <sup>6</sup>	355 ± 10.7		

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

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CAS Number: 75-87-6

**Strain: TA98**

<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>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 1.2	21 ± 1.5	31 ± 3.0	37 ± 2.2	26 ± 1.0
100.0	11 ± 2.0	18 ± 1.7	31 ± 2.7	31 ± 0.3	24 ± 0.7
333.0	21 ± 1.5	17 ± 0.6	28 ± 2.3	29 ± 2.9	27 ± 3.2
1000.0	16 ± 1.9	22 ± 1.9	29 ± 3.2	39 ± 1.2	29 ± 1.8
3333.0	18 ± 0.9	26 ± 1.2	28 ± 0.7	44 ± 4.5	26 ± 1.7
10000.0	1 ± 0.6 <sup>s</sup>	5 ± 2.0 <sup>s</sup>	9 ± 3.2 <sup>s</sup>	26 ± 2.3 <sup>s</sup>	7 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					826 ± 30.7
Positive Control <sup>3</sup>			936 ± 18.4	637 ± 60.9	
Positive Control <sup>7</sup>	1272 ± 37.8	846 ± 19.5			

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CAS Number: 75-87-6

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	38 ± 3.5
100.0	31 ± 1.2
333.0	37 ± 5.5
1000.0	40 ± 4.9
3333.0	39 ± 2.0
10000.0	25 ± 3.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	808 ± 88.9
Positive Control <sup>3</sup>	
Positive Control <sup>7</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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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