

Experiment Number: 669858

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Chloranil

CAS Number: 118-75-2

Date Report Requested: 09/11/2018

Time Report Requested: 12:27:57

**NTP Study Number:**

669858

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	99 ± 7.1	107 ± 12.4	120 ± 9.0	115 ± 5.6	145 ± 8.2
0.1	95 ± 10.1	100 ± 2.3			
0.3	116 ± 5.4	100 ± 5.9			
1.0	109 ± 3.8	129 ± 16.7			
1.6		150 ± 12.7			
3.0	139 ± 11.1	142 ± 9.7			
6.0	63 ± 31.4				
10.0					
33.0					135 ± 7.8
100.0			152 ± 7.9	176 ± 11.9	149 ± 8.7
166.0			156 ± 10.4	170 ± 3.7	
333.0			127 ± 23.5	221 ± 5.2	174 ± 1.7
666.0			0 ± 0.0 <sup>s</sup>	65 ± 20.2 <sup>s</sup>	
1000.0			Toxic	Toxic	185 ± 19.3 <sup>s</sup>
1666.0					1 ± 0.7 <sup>s</sup>
Trial Summary	Equivocal	Equivocal	Negative	Weakly Positive	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			587 ± 19.1	458 ± 4.9	
Positive Control <sup>4</sup>					474 ± 14.7
Positive Control <sup>5</sup>	583 ± 39.3	309 ± 18.9			

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 10.7	135 ± 18.2	123 ± 11.3	131 ± 3.2	123 ± 5.0
0.1					
0.3					
1.0					
1.6					
3.0					
6.0					
10.0			126 ± 8.4	138 ± 9.3	119 ± 3.1
33.0		159 ± 5.3	138 ± 1.7	137 ± 2.2	141 ± 7.2
100.0	155 ± 4.2	153 ± 10.3	95 ± 7.1	162 ± 6.1	122 ± 13.1
166.0	189 ± 9.9	166 ± 6.4	10 ± 4.1 <sup>s</sup>	121 ± 15.6	
333.0	247 ± 9.8	258 ± 7.5	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	169 ± 9.4
666.0	329 ± 3.5	361 ± 18.7			105 ± 15.4 <sup>s</sup>
1000.0	54 ± 6.0 <sup>s</sup>	153 ± 32.1 <sup>s</sup>			
1666.0					
Trial Summary	Positive	Positive	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			794 ± 98.2	610 ± 69.1	
Positive Control <sup>3</sup>					578 ± 21.2
Positive Control <sup>4</sup>	437 ± 10.3	387 ± 8.7			
Positive Control <sup>5</sup>					

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 5.7
0.1	
0.3	
1.0	
1.6	
3.0	
6.0	
10.0	135 ± 10.3
33.0	132 ± 3.6
100.0	138 ± 12.2
166.0	134 ± 10.1
333.0	179 ± 21.2
666.0	
1000.0	
1666.0	
Trial Summary	Equivocal
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	692 ± 62.8
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 3.3	12 ± 1.5	8 ± 1.2
0.1	9 ± 2.0		
0.3	10 ± 0.9		
1.0	10 ± 1.0		
1.6	7 ± 1.7		
3.0	4 ± 2.0		
33.0		12 ± 4.0	14 ± 1.2
100.0		12 ± 0.6	8 ± 0.9
166.0		9 ± 1.5	9 ± 4.1
333.0		8 ± 1.9	11 ± 0.6
666.0		12 ± 2.2	4 ± 0.9
1000.0		0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>			199 ± 25.9
Positive Control <sup>5</sup>	334 ± 23.2		
Positive Control <sup>6</sup>		75 ± 6.7	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 2.3	19 ± 2.4	23 ± 1.8	19 ± 0.7	25 ± 2.9
0.01		21 ± 2.3			
0.03		17 ± 2.2			
0.1	19 ± 3.0	15 ± 0.6			
0.3	25 ± 2.3	18 ± 2.8			
1.0	24 ± 3.6	12 ± 2.9			
3.0	6 ± 0.0 <sup>s</sup>			23 ± 3.5	
6.0	0 ± 0.0 <sup>s</sup>				
10.0				20 ± 3.8	23 ± 4.4
33.0			31 ± 4.1	17 ± 3.9	24 ± 4.0
100.0			34 ± 4.5	18 ± 1.7	21 ± 3.4
333.0			29 ± 3.4	23 ± 2.7	25 ± 7.2
666.0					6 ± 0.7 <sup>s</sup>
1000.0			9 ± 4.8 <sup>s</sup>		
1666.0			0 ± 0.0 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			121 ± 11.4	106 ± 4.2	430 ± 0.3
Positive Control <sup>7</sup>	474 ± 17.3	946 ± 29.6			

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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: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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