

Experiment Number: 190683

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: C.I. Acid blue 74

CAS Number: 860-22-0

Date Report Requested: 09/14/2018

Time Report Requested: 01:44:17

**NTP Study Number:**

190683

**Study Result:**

Positive

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Test Compound: C.I. Acid blue 74

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	126 ± 1.0	122 ± 3.6	142 ± 3.8	132 ± 8.2	152 ± 5.8
100.0	146 ± 8.2		146 ± 2.0		
333.0	138 ± 8.9	152 ± 12.3	147 ± 13.8	154 ± 15.6	150 ± 6.2
1000.0	128 ± 7.3 <sup>P</sup>	138 ± 3.7 <sup>P</sup>	166 ± 5.4 <sup>P</sup>	163 ± 25.0 <sup>P</sup>	171 ± 9.5 <sup>P</sup>
3333.0	141 ± 6.0 <sup>P</sup>	134 ± 10.3 <sup>P</sup>	189 ± 3.5 <sup>P</sup>	187 ± 12.6 <sup>P</sup>	170 ± 1.5 <sup>P</sup>
6666.0		129 ± 8.8 <sup>P</sup>		192 ± 13.5 <sup>P</sup>	168 ± 4.4 <sup>P</sup>
10000.0	126 ± 2.9 <sup>P</sup>	136 ± 8.1 <sup>P</sup>	190 ± 6.7 <sup>P</sup>	175 ± 1.8 <sup>P</sup>	175 ± 10.4 <sup>P</sup>
Trial Summary	Negative	Negative	Weakly Positive	Weakly Positive	Equivocal
Positive Control <sup>2</sup>			1082 ± 50.9	930 ± 108.2	890 ± 69.6
Positive Control <sup>3</sup>	493 ± 24.8	447 ± 7.2			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	117 ± 4.7	124 ± 3.5
100.0	161 ± 2.4	
333.0	155 ± 6.2	147 ± 3.7
1000.0	153 ± 6.1 <sup>P</sup>	151 ± 4.4 <sup>P</sup>
3333.0	155 ± 3.1 <sup>P</sup>	170 ± 11.5 <sup>P</sup>
6666.0		143 ± 8.7 <sup>P</sup>
10000.0	154 ± 11.4 <sup>P</sup>	151 ± 1.2 <sup>P</sup>
Trial Summary	Equivocal	Equivocal
Positive Control <sup>2</sup>	2193 ± 40.6	1577 ± 17.7
Positive Control <sup>3</sup>		

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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>	32 ± 3.0	23 ± 3.1	10 ± 2.7	6 ± 0.9	7 ± 0.6
100.0	26 ± 5.0		7 ± 0.3		8 ± 2.3
333.0	27 ± 3.5	26 ± 3.2	9 ± 2.9	7 ± 1.2	11 ± 1.8
1000.0	29 ± 1.5 <sup>P</sup>	27 ± 5.0 <sup>P</sup>	12 ± 2.4 <sup>P</sup>	14 ± 1.5 <sup>P</sup>	9 ± 2.2 <sup>P</sup>
3333.0	25 ± 2.1 <sup>P</sup>	22 ± 3.8 <sup>P</sup>	9 ± 0.3 <sup>P</sup>	6 ± 1.5 <sup>P</sup>	13 ± 2.5 <sup>P</sup>
6666.0		22 ± 4.4 <sup>P</sup>		10 ± 1.8 <sup>P</sup>	
10000.0	24 ± 1.7 <sup>P</sup>	20 ± 1.5 <sup>P</sup>	9 ± 1.5 <sup>P</sup>	7 ± 1.2 <sup>P</sup>	10 ± 0.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	531 ± 11.7	385 ± 7.1			
Positive Control <sup>4</sup>			193 ± 14.4	163 ± 6.6	426 ± 8.5

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.1
100.0	
333.0	9 ± 1.9
1000.0	6 ± 0.9 <sup>P</sup>
3333.0	9 ± 2.1 <sup>P</sup>
6666.0	9 ± 2.1 <sup>P</sup>
10000.0	10 ± 0.9 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	376 ± 36.1

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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>	6 ± 1.5	5 ± 0.7	8 ± 2.0	7 ± 2.5	14 ± 0.3
100.0	7 ± 2.3		10 ± 1.7		7 ± 1.2
333.0	5 ± 1.0	9 ± 3.2	10 ± 2.8	10 ± 3.2	11 ± 1.9
666.0				11 ± 1.9	
1000.0	5 ± 0.6 <sup>p</sup>	3 ± 0.3 <sup>p</sup>	21 ± 2.0 <sup>p</sup>	13 ± 2.2 <sup>p</sup>	9 ± 1.5 <sup>p</sup>
3333.0	3 ± 0.0 <sup>p</sup>	4 ± 2.3 <sup>p</sup>	24 ± 3.8 <sup>p</sup>	20 ± 3.2 <sup>p</sup>	7 ± 0.3 <sup>p</sup>
6666.0		4 ± 1.7 <sup>p</sup>		16 ± 2.2 <sup>p</sup>	
10000.0	5 ± 1.2 <sup>p</sup>	7 ± 1.2 <sup>p</sup>	18 ± 3.8 <sup>p</sup>		7 ± 0.0 <sup>p</sup>
Trial Summary	Negative	Negative	Positive	Positive	Negative
Positive Control <sup>4</sup>			216 ± 23.7	185 ± 10.4	324 ± 13.2
Positive Control <sup>5</sup>	143 ± 22.8	135 ± 21.4			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.5
100.0	
333.0	10 ± 2.1
666.0	
1000.0	6 ± 1.7 <sup>P</sup>
3333.0	9 ± 2.1 <sup>P</sup>
6666.0	6 ± 1.5 <sup>P</sup>
10000.0	4 ± 1.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	129 ± 0.6
Positive Control <sup>5</sup>	

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Test Compound: C.I. Acid blue 74

CAS Number: 860-22-0

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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>	21 ± 1.5	17 ± 1.7	28 ± 4.3	26 ± 0.9	34 ± 1.0
100.0	22 ± 4.4		31 ± 1.7		32 ± 0.7
333.0	16 ± 2.3	15 ± 2.0	38 ± 3.6	37 ± 4.3	29 ± 6.9
666.0				41 ± 7.2	
1000.0	15 ± 1.7 <sup>P</sup>	16 ± 2.6 <sup>P</sup>	58 ± 1.5 <sup>P</sup>	62 ± 3.1 <sup>P</sup>	35 ± 3.5 <sup>P</sup>
3333.0	23 ± 1.8 <sup>P</sup>	21 ± 2.5 <sup>P</sup>	61 ± 7.3 <sup>P</sup>	62 ± 3.5 <sup>P</sup>	28 ± 1.2 <sup>P</sup>
6666.0		17 ± 2.5 <sup>P</sup>		60 ± 7.0 <sup>P</sup>	
10000.0	21 ± 1.2 <sup>P</sup>	12 ± 0.9 <sup>P</sup>	57 ± 12.4 <sup>P</sup>		21 ± 4.6 <sup>P</sup>
Trial Summary	Negative	Negative	Positive	Positive	Negative
Positive Control <sup>2</sup>			983 ± 21.0	727 ± 31.3	1772 ± 33.7
Positive Control <sup>6</sup>	737 ± 15.2	878 ± 45.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	31 ± 3.8
100.0	
333.0	38 ± 3.0
666.0	
1000.0	42 ± 1.8 <sup>P</sup>
3333.0	29 ± 4.6 <sup>P</sup>
6666.0	32 ± 3.5 <sup>P</sup>
10000.0	20 ± 4.4 <sup>P</sup>
Trial Summary	Equivocal
Positive Control <sup>2</sup>	1285 ± 87.0
Positive Control <sup>6</sup>	

Experiment Number: 190683

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

**G06: Ames Summary Data**

Test Compound: **C.I. Acid blue 74**

CAS Number: **860-22-0**

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

Time Report Requested: **01:44:17**

### **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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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