

Experiment Number: 604832

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: C.I. Direct black 38

CAS Number: 1937-37-7

Date Report Requested: 09/15/2018

Time Report Requested: 00:49:13

**NTP Study Number:**

604832

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	140 ± 1.5	138 ± 3.2	167 ± 8.2	147 ± 8.2	121 ± 10.6
3.3					
10.0					
33.0	138 ± 7.8	140 ± 6.2	163 ± 14.6	129 ± 5.4	219 ± 9.2 <sup>P</sup>
100.0	148 ± 4.8	142 ± 1.2	153 ± 8.7	150 ± 13.8	313 ± 5.1 <sup>P</sup>
333.0	129 ± 10.8	138 ± 8.1	164 ± 9.1	135 ± 4.6	171 ± 10.1 <sup>P</sup>
1000.0	130 ± 3.8	135 ± 6.6	151 ± 7.4	155 ± 4.6	113 ± 5.6 <sup>P</sup>
2000.0	136 ± 6.8	132 ± 3.0	152 ± 4.7	138 ± 3.1	99 ± 9.1 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>					1365 ± 68.2
Positive Control <sup>4</sup>			2368 ± 77.5	2869 ± 70.0	

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	135 ± 9.2	114 ± 3.6	125 ± 11.6
3.3	130 ± 5.5		142 ± 5.2
10.0	170 ± 7.0 <sup>P</sup>		153 ± 8.5 <sup>P</sup>
33.0	188 ± 9.3 <sup>P</sup>	165 ± 12.8 <sup>P</sup>	189 ± 4.9 <sup>P</sup>
100.0	317 ± 5.0 <sup>P</sup>	193 ± 6.7 <sup>P</sup>	256 ± 15.4 <sup>P</sup>
333.0	219 ± 9.0 <sup>P</sup>	131 ± 4.9 <sup>P</sup>	166 ± 18.6 <sup>P</sup>
1000.0		119 ± 4.8 <sup>P</sup>	
2000.0		114 ± 3.9 <sup>P</sup>	
Trial Summary	Positive	Positive	Positive
Positive Control <sup>2</sup>		2894 ± 103.7	2587 ± 168.5
Positive Control <sup>3</sup>	1386 ± 64.4		
Positive Control <sup>4</sup>			

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	33 ± 2.5	8 ± 1.2	11 ± 2.6
33.0	30 ± 3.2	8 ± 2.0 <sup>P</sup>	10 ± 1.0 <sup>P</sup>
100.0	32 ± 2.3	13 ± 2.4 <sup>P</sup>	10 ± 1.5 <sup>P</sup>
333.0	30 ± 7.4	9 ± 2.3 <sup>P</sup>	13 ± 1.7 <sup>P</sup>
1000.0	27 ± 5.8	8 ± 0.6 <sup>P</sup>	9 ± 1.5 <sup>P</sup>
2000.0	30 ± 8.5	9 ± 2.7 <sup>P</sup>	12 ± 2.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			223 ± 11.6
Positive Control <sup>3</sup>		110 ± 5.4	
Positive Control <sup>4</sup>	1467 ± 54.6		

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## G06: Ames Summary Data

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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>	5 ± 2.5	5 ± 0.9	7 ± 0.6	5 ± 1.2	8 ± 2.1
3.3				8 ± 1.3	
10.0				16 ± 2.0 <sup>P</sup>	
33.0	6 ± 1.3	7 ± 0.7	33 ± 0.9 <sup>P</sup>	18 ± 0.9 <sup>P</sup>	24 ± 3.2 <sup>P</sup>
100.0	5 ± 1.2	8 ± 0.7	52 ± 1.7 <sup>P</sup>	36 ± 5.8 <sup>P</sup>	30 ± 1.3 <sup>P</sup>
333.0	6 ± 1.0	4 ± 1.0	19 ± 4.6 <sup>P</sup>	22 ± 0.9 <sup>P</sup>	13 ± 2.6 <sup>P</sup>
1000.0	7 ± 1.3	5 ± 1.9	6 ± 1.8 <sup>P</sup>		7 ± 0.7 <sup>P</sup>
2000.0	5 ± 0.6	6 ± 0.6	6 ± 0.7 <sup>P</sup>		9 ± 0.7 <sup>P</sup>
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					286 ± 21.3
Positive Control <sup>3</sup>			127 ± 4.0	112 ± 5.8	
Positive Control <sup>5</sup>	415 ± 29.3	364 ± 84.8			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.6
3.3	7 ± 1.0
10.0	11 ± 0.9 <sup>p</sup>
33.0	15 ± 2.3 <sup>p</sup>
100.0	24 ± 2.3 <sup>p</sup>
333.0	14 ± 3.5 <sup>p</sup>
1000.0	
2000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	235 ± 18.5
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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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 ± 3.9	22 ± 2.1	28 ± 2.0	26 ± 5.5	30 ± 5.3
0.0				0 ± 0.0 <sup>P</sup>	
3.3				47 ± 2.7	
10.0				92 ± 3.5 <sup>P</sup>	
33.0	19 ± 3.1	22 ± 3.1	307 ± 4.8 <sup>P</sup>	209 ± 3.5 <sup>P</sup>	164 ± 8.0 <sup>P</sup>
100.0	34 ± 2.7	23 ± 2.6	439 ± 14.7 <sup>P</sup>	375 ± 10.7 <sup>P</sup>	283 ± 11.0 <sup>P</sup>
333.0	30 ± 3.5	36 ± 1.2	216 ± 22.0 <sup>P</sup>	219 ± 15.3 <sup>P</sup>	138 ± 9.2 <sup>P</sup>
1000.0	58 ± 3.4	53 ± 5.0	59 ± 15.2 <sup>P</sup>		53 ± 0.7 <sup>P</sup>
2000.0	85 ± 13.3	61 ± 3.8	35 ± 10.0 <sup>P</sup>		32 ± 4.2 <sup>P</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					2556 ± 14.1
Positive Control <sup>3</sup>			1166 ± 35.6	1022 ± 11.5	
Positive Control <sup>6</sup>	2216 ± 20.5	1483 ± 57.2			

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 5.0
0.0	
3.3	55 ± 1.5
10.0	81 ± 2.0 <sup>P</sup>
33.0	134 ± 10.4 <sup>P</sup>
100.0	252 ± 17.3 <sup>P</sup>
333.0	169 ± 7.2 <sup>P</sup>
1000.0	
2000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1917 ± 70.5
Positive Control <sup>3</sup>	
Positive Control <sup>6</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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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