

Experiment Number: 059158

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

**G06: Ames Summary Data**

Test Compound: **C.I. Direct blue 25**

CAS Number: 2150-54-1

Date Report Requested: **09/15/2018**

Time Report Requested: **03:14:48**

**NTP Study Number:**

059158

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	104 ± 4.4	101 ± 2.4	143 ± 7.5	156 ± 10.2	143 ± 8.4
100.0	108 ± 4.3	105 ± 4.4	152 ± 2.5	166 ± 6.3	144 ± 3.0
333.0	131 ± 5.4	128 ± 2.6	171 ± 10.4	187 ± 14.2	164 ± 9.6
1000.0	73 ± 2.2	101 ± 18.1	124 ± 3.8	136 ± 6.8	175 ± 12.6
3333.0	103 ± 15.7	72 ± 5.9	108 ± 3.3	125 ± 10.1	126 ± 2.1
10000.0	82 ± 4.3	80 ± 3.8	79 ± 3.8	87 ± 3.0	87 ± 4.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1061 ± 119.9	1146 ± 58.1	1203 ± 122.4
Positive Control <sup>3</sup>	1274 ± 31.7	782 ± 27.7			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	160 ± 9.6
100.0	162 ± 1.7
333.0	163 ± 10.7
1000.0	173 ± 13.9
3333.0	142 ± 2.9
10000.0	99 ± 6.1
Trial Summary	Negative
Positive Control <sup>2</sup>	1136 ± 43.5
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>	17 ± 2.5	20 ± 0.9	18 ± 1.5	15 ± 1.2	25 ± 2.4
100.0	20 ± 0.9	24 ± 2.7	21 ± 2.2	17 ± 1.0	30 ± 3.0
333.0	15 ± 2.7	17 ± 0.3	18 ± 2.2	15 ± 2.6	22 ± 2.6
1000.0	17 ± 4.2	15 ± 2.0	21 ± 3.5	17 ± 2.1	25 ± 2.8
3333.0	14 ± 3.2	16 ± 2.9	23 ± 0.9	19 ± 2.3	18 ± 1.7
10000.0	14 ± 2.0	17 ± 2.7	12 ± 1.2	10 ± 2.0	15 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			276 ± 22.3	319 ± 24.9	364 ± 29.0
Positive Control <sup>3</sup>	987 ± 40.5	1037 ± 70.4			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 1.9
100.0	16 ± 2.1
333.0	12 ± 0.9
1000.0	13 ± 0.3
3333.0	10 ± 1.7
10000.0	8 ± 1.2
Trial Summary	Negative
Positive Control <sup>4</sup>	447 ± 84.8
Positive Control <sup>3</sup>	

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Mutagenicity**G06: Ames Summary Data**

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**Strain: TA1537**

<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>	11 ± 3.2	8 ± 1.2	15 ± 1.7	13 ± 3.3	26 ± 0.9
100.0	12 ± 1.5	10 ± 3.2	19 ± 1.3	17 ± 4.3	30 ± 2.0
333.0	15 ± 1.8	11 ± 1.8	19 ± 2.4	16 ± 2.0	22 ± 1.5
1000.0	10 ± 1.5	9 ± 0.9	8 ± 0.6	7 ± 1.2	21 ± 1.8
3333.0	8 ± 1.2	6 ± 0.6	7 ± 0.9	7 ± 1.5	13 ± 2.0
10000.0	Toxic	Toxic	Toxic	Toxic	4 ± 0.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			247 ± 46.4	307 ± 9.0	125 ± 11.9
Positive Control <sup>5</sup>	122 ± 16.4	165 ± 11.8			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	13 ± 2.3
100.0	15 ± 1.2
333.0	11 ± 0.0
1000.0	11 ± 0.3
3333.0	7 ± 1.8
10000.0	Toxic
Trial Summary	Negative
Positive Control <sup>4</sup>	293 ± 8.5
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>	19 ± 3.2	18 ± 1.0	37 ± 1.3	31 ± 3.3	44 ± 1.5
100.0	19 ± 0.9	20 ± 5.0	34 ± 2.4	28 ± 3.0	53 ± 1.8
333.0	19 ± 1.3	23 ± 3.1	40 ± 1.7	33 ± 1.5	48 ± 1.7
1000.0	25 ± 4.0	27 ± 2.7	23 ± 4.5	19 ± 3.7	44 ± 3.6
3333.0	17 ± 3.7	15 ± 2.6	26 ± 0.7	21 ± 1.5	50 ± 3.5
10000.0	19 ± 2.3	15 ± 0.3	15 ± 1.7	12 ± 1.2	23 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			467 ± 22.1	1026 ± 47.0	495 ± 41.5
Positive Control <sup>6</sup>	182 ± 15.0	465 ± 36.1			



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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>	37 ± 5.0
100.0	45 ± 3.7
333.0	41 ± 5.5
1000.0	37 ± 1.0
3333.0	42 ± 3.5
10000.0	20 ± 4.5
Trial Summary	Negative
Positive Control <sup>2</sup>	1035 ± 27.4
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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