

Experiment Number: 515159

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

**G06: Ames Summary Data**

Test Compound: **C.I. Direct yellow 11**

CAS Number: 1325-37-7

Date Report Requested: **09/12/2018**

Time Report Requested: **12:11:12**

**NTP Study Number:**

515159

**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>	195 ± 4.4	129 ± 4.9	216 ± 7.5	98 ± 5.9	183 ± 5.8
100.0	170 ± 6.7	116 ± 1.2	223 ± 2.5	101 ± 0.9	189 ± 5.2
333.0	160 ± 4.6	121 ± 14.6	204 ± 5.0	104 ± 11.0	175 ± 11.5
1000.0	172 ± 1.5	117 ± 3.3	165 ± 8.0	93 ± 6.4	183 ± 5.0
3333.0	177 ± 8.2	117 ± 5.8	176 ± 3.4	85 ± 4.9	177 ± 9.5
10000.0	181 ± 6.2	117 ± 3.8	193 ± 11.5 <sup>p</sup>	98 ± 6.1 <sup>p</sup>	174 ± 4.4 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2965 ± 57.9
Positive Control <sup>3</sup>			2983 ± 22.3	977 ± 32.1	
Positive Control <sup>4</sup>	1727 ± 68.9	851 ± 37.9			

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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>	100 ± 6.8
100.0	93 ± 7.3
333.0	87 ± 3.7
1000.0	95 ± 5.8
3333.0	92 ± 6.6
10000.0	103 ± 7.0 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	877 ± 34.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</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>	58 ± 4.1	40 ± 3.2	52 ± 2.4	12 ± 2.2	49 ± 3.8
100.0	59 ± 2.8	31 ± 5.2	59 ± 5.0	15 ± 2.2	46 ± 2.8
333.0	58 ± 4.2	37 ± 2.0	56 ± 6.0	13 ± 1.8	42 ± 0.3
1000.0	52 ± 2.2	36 ± 3.8	47 ± 3.4	12 ± 0.3	42 ± 2.7
3333.0	55 ± 5.0	39 ± 3.0	44 ± 3.3	9 ± 1.2	36 ± 3.3
10000.0	48 ± 2.1	37 ± 2.4	50 ± 2.0 <sup>p</sup>	18 ± 2.7 <sup>p</sup>	37 ± 5.6 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					438 ± 7.0
Positive Control <sup>3</sup>			280 ± 9.8	97 ± 2.3	
Positive Control <sup>4</sup>	1296 ± 46.9	763 ± 9.7			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	17 ± 3.0
100.0	14 ± 1.8
333.0	13 ± 1.7
1000.0	16 ± 0.7
3333.0	14 ± 1.3
10000.0	13 ± 2.1 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	82 ± 1.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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 ± 1.3	8 ± 1.2	8 ± 0.3	7 ± 1.3	11 ± 1.7
100.0	9 ± 0.3	7 ± 1.7	9 ± 2.0	4 ± 0.7	6 ± 0.9
333.0	8 ± 1.2	4 ± 2.2	9 ± 0.9	5 ± 0.9	10 ± 1.5
1000.0	11 ± 1.2	6 ± 1.3	12 ± 0.0	5 ± 0.9	8 ± 0.3
3333.0	8 ± 0.9	6 ± 1.0	8 ± 0.6	8 ± 2.2	9 ± 0.6
10000.0	10 ± 1.2	8 ± 0.3	8 ± 3.2 <sup>p</sup>	7 ± 1.7 <sup>p</sup>	9 ± 1.2 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					324 ± 5.2
Positive Control <sup>3</sup>			316 ± 23.4	84 ± 7.2	
Positive Control <sup>5</sup>	786 ± 32.1	118 ± 5.4			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.0
100.0	5 ± 2.1
333.0	7 ± 1.5
1000.0	6 ± 1.5
3333.0	6 ± 0.7
10000.0	3 ± 0.7 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	74 ± 6.6
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>	17 ± 0.6	14 ± 0.6	34 ± 3.5	25 ± 1.7	28 ± 0.9
100.0	17 ± 0.6	17 ± 0.0	32 ± 3.4	31 ± 2.2	26 ± 1.0
333.0	19 ± 2.9	21 ± 2.0	27 ± 2.3	27 ± 2.6	31 ± 1.7
1000.0	15 ± 3.7	13 ± 1.2	36 ± 2.5	24 ± 3.2	28 ± 0.6
3333.0	22 ± 0.3	14 ± 0.6	16 ± 2.5	15 ± 0.3	24 ± 3.2
10000.0	18 ± 0.7	16 ± 2.3	22 ± 3.8 <sup>p</sup>	22 ± 3.4 <sup>p</sup>	20 ± 2.9 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2595 ± 62.5
Positive Control <sup>3</sup>			2205 ± 111.9	581 ± 17.6	
Positive Control <sup>6</sup>	1319 ± 55.0	1095 ± 11.0			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 5.0
100.0	23 ± 1.0
333.0	24 ± 1.2
1000.0	28 ± 3.8
3333.0	16 ± 3.8
10000.0	19 ± 2.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	727 ± 8.1
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: Dimethyl Sulfoxide

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 \*\***