

Experiment Number: 775034

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct blue 1

CAS Number: 2610-05-1

Date Report Requested: 09/18/2018

Time Report Requested: 00:35:44

NTP Study Number:

775034

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**Test Compound: C.I. Direct blue 1
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Date Report Requested: 09/18/2018

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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 ¹	137 ± 5.5	137 ± 6.2	160 ± 6.0	127 ± 11.7	152 ± 3.3
33.0	138 ± 7.1		134 ± 10.9		151 ± 8.3
100.0	141 ± 6.4	129 ± 6.7	143 ± 11.3	137 ± 6.0	135 ± 15.8
333.0	129 ± 7.0	136 ± 6.2	144 ± 12.2	125 ± 6.7	168 ± 9.4
1000.0	126 ± 7.9	137 ± 3.9	125 ± 12.4	136 ± 5.5	143 ± 8.5
3333.0	141 ± 3.8	103 ± 7.5	140 ± 20.8	124 ± 12.5	129 ± 13.6
10000.0		128 ± 2.6		120 ± 2.1	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			567 ± 27.7	706 ± 22.1	1148 ± 58.9
Positive Control ³	259 ± 14.4	244 ± 8.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	130 ± 8.2
33.0	
100.0	118 ± 7.3
333.0	115 ± 7.2
1000.0	115 ± 1.9
3333.0	116 ± 18.0
10000.0	97 ± 12.8
Trial Summary	Negative
Positive Control ²	1186 ± 32.2
Positive Control ³	

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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 ¹	26 ± 2.9	24 ± 4.6	18 ± 1.0	12 ± 2.0	13 ± 0.6
33.0	25 ± 2.3		12 ± 2.0		10 ± 4.4
100.0	27 ± 2.8	24 ± 1.5	13 ± 2.9	15 ± 1.7	10 ± 2.5
333.0	28 ± 1.2	18 ± 3.0	18 ± 3.5	10 ± 2.6	11 ± 2.7
1000.0	23 ± 3.9	21 ± 4.3	14 ± 2.0	12 ± 0.3	10 ± 2.8
3333.0	17 ± 2.2	15 ± 2.8	10 ± 4.5	5 ± 0.9	9 ± 1.8
10000.0		19 ± 1.0		5 ± 2.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	283 ± 1.3	273 ± 6.1			
Positive Control ⁴			144 ± 9.4	171 ± 8.1	389 ± 2.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
33.0	
100.0	11 ± 3.4
333.0	9 ± 1.9
1000.0	8 ± 2.6
3333.0	5 ± 1.2
10000.0	4 ± 0.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	362 ± 21.2

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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 ¹	5 ± 1.7	7 ± 1.2	10 ± 1.7	5 ± 1.2	7 ± 2.9
33.0	7 ± 0.7		9 ± 1.3		10 ± 2.9
100.0	3 ± 0.6	7 ± 3.2	12 ± 1.5	8 ± 2.4	11 ± 3.5
333.0	8 ± 2.3	6 ± 1.2	12 ± 0.9	8 ± 0.3	15 ± 0.6
1000.0	5 ± 1.7	3 ± 1.2	7 ± 1.2	10 ± 1.7	13 ± 3.0
3333.0	6 ± 0.6	3 ± 0.9	7 ± 2.4	8 ± 1.9	9 ± 1.5
10000.0		6 ± 0.9		5 ± 1.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			205 ± 2.3	234 ± 21.4	537 ± 17.7
Positive Control ⁵	329 ± 28.0	271 ± 10.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.7
33.0	
100.0	8 ± 3.3
333.0	4 ± 1.2
1000.0	7 ± 1.2
3333.0	5 ± 0.9
10000.0	4 ± 0.7
Trial Summary	Negative
Positive Control ⁴	619 ± 10.4
Positive Control ⁵	

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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 ¹	18 ± 4.2	17 ± 1.9	28 ± 2.1	24 ± 1.7	27 ± 2.8
33.0	16 ± 1.9		36 ± 4.3		37 ± 5.7
100.0	20 ± 2.3	19 ± 2.7	33 ± 4.7	22 ± 4.0	36 ± 5.9
333.0	17 ± 5.3	21 ± 4.4	40 ± 2.4	24 ± 2.4	41 ± 4.7
1000.0	19 ± 1.2	20 ± 3.2	45 ± 8.4	26 ± 3.6	28 ± 4.9
3333.0	23 ± 2.7	20 ± 5.4	31 ± 1.2	19 ± 1.0	26 ± 0.7
10000.0		20 ± 2.1		13 ± 4.1	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			498 ± 33.0	507 ± 18.2	1093 ± 63.3
Positive Control ⁶	463 ± 33.7	478 ± 11.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 2.8
33.0	
100.0	28 ± 0.0
333.0	33 ± 3.0
1000.0	28 ± 0.7
3333.0	15 ± 1.3
10000.0	10 ± 1.5
Trial Summary	Negative
Positive Control ²	1054 ± 43.7
Positive Control ⁶	

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LEGEND

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: 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

**** END OF REPORT ****