

Experiment Number: 671973

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 09/11/2018

Time Report Requested: 12:38:54

NTP Study Number:

671973

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 ¹	97 ± 2.3	125 ± 3.5	108 ± 15.1	97 ± 4.2	101 ± 5.9
100.0	73 ± 3.7	39 ± 39.3	110 ± 8.2	92 ± 5.2	130 ± 1.2
333.0	82 ± 13.9	133 ± 16.0	124 ± 3.5	88 ± 1.0	104 ± 2.0
1000.0	94 ± 5.4	125 ± 5.4	106 ± 8.2	91 ± 3.9	100 ± 3.3
3333.0	91 ± 2.3	125 ± 13.1	105 ± 6.9	85 ± 1.5	112 ± 9.0
10000.0	66 ± 2.6	136 ± 4.9	105 ± 9.0	67 ± 4.2	85 ± 11.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1642 ± 41.2	2205 ± 35.2	1678 ± 99.2
Positive Control ³	439 ± 41.8	1475 ± 37.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	104 ± 3.0
100.0	95 ± 5.0
333.0	96 ± 3.8
1000.0	84 ± 4.6
3333.0	102 ± 8.4
10000.0	69 ± 0.3
Trial Summary	Negative
Positive Control ²	2285 ± 33.2
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	3 ± 0.9	17 ± 6.0	9 ± 1.8	7 ± 3.4	4 ± 0.6
33.0				5 ± 0.9	
100.0	6 ± 1.2	20 ± 2.9	6 ± 0.3	5 ± 1.8	5 ± 1.5
333.0	2 ± 0.6	21 ± 3.2	4 ± 0.9	3 ± 1.2	4 ± 1.2
1000.0	5 ± 1.7	24 ± 1.2	0 ± 0.0	2 ± 0.9	11 ± 1.0
3333.0	4 ± 1.5	20 ± 3.3	1 ± 0.3	0 ± 0.3	1 ± 1.0
10000.0	3 ± 0.7	19 ± 0.3	0 ± 0.0		1 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			102 ± 16.2		197 ± 38.9
Positive Control ⁴				36 ± 8.4	
Positive Control ³	126 ± 11.1	1224 ± 8.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.5
33.0	6 ± 0.9
100.0	2 ± 0.7
333.0	2 ± 0.6
1000.0	1 ± 0.6
3333.0	0 ± 0.3
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	149 ± 30.0
Positive Control ³	

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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	8 ± 1.2	9 ± 0.3	6 ± 1.5	5 ± 1.8	4 ± 1.2
100.0	3 ± 0.9	7 ± 0.5	8 ± 1.5	4 ± 0.6	6 ± 0.9
333.0	6 ± 1.7	12 ± 2.2	6 ± 1.5	2 ± 1.2	7 ± 1.5
1000.0	5 ± 0.3	9 ± 0.0	3 ± 0.9	2 ± 0.3	7 ± 0.9
3333.0	4 ± 0.7	10 ± 0.9	4 ± 1.2	2 ± 0.3	6 ± 0.9
10000.0	1 ± 0.3	7 ± 1.0	3 ± 0.3	1 ± 0.3	4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			204 ± 29.4		120 ± 8.0
Positive Control ⁴				34 ± 8.6	
Positive Control ⁵	116 ± 13.4	168 ± 37.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.5
100.0	5 ± 1.0
333.0	4 ± 1.5
1000.0	3 ± 0.0
3333.0	1 ± 0.6
10000.0	2 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	153 ± 41.4
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	20 ± 0.6	28 ± 2.0	29 ± 0.9	22 ± 2.0	22 ± 3.8
100.0	17 ± 1.2	20 ± 3.1	24 ± 1.8	15 ± 2.8	27 ± 1.5
333.0	13 ± 2.6	21 ± 4.3	30 ± 4.7	19 ± 1.5	27 ± 6.4
1000.0	15 ± 0.9	19 ± 1.3	18 ± 0.3	17 ± 0.6	26 ± 2.2
3333.0	15 ± 2.4	19 ± 1.5	19 ± 5.8	15 ± 1.5	12 ± 1.2
10000.0	13 ± 1.2	24 ± 3.8	16 ± 5.5	9 ± 0.9	17 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			942 ± 83.8	2081 ± 44.7	2076 ± 87.7
Positive Control ⁶	170 ± 15.4	199 ± 17.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.2
100.0	20 ± 1.0
333.0	17 ± 0.6
1000.0	20 ± 0.7
3333.0	17 ± 0.6
10000.0	8 ± 1.5
Trial Summary	Negative
Positive Control ²	1985 ± 18.2
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: 3.3 ug/Plate Sodium Azide
- 4: 3.3 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****