

Experiment Number: 336679

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

G06: Ames Summary Data

Test Compound: **C.I. Disperse blue 1**

CAS Number: **2475-45-8**

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

Time Report Requested: **22:28:01**

NTP Study Number:

336679

Study Result:

Positive

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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	132 ± 5.6	142 ± 4.9	108 ± 3.5	139 ± 5.9	112 ± 2.7
10.0	143 ± 4.3		138 ± 1.0	155 ± 3.2	119 ± 8.9
33.0	143 ± 7.6	177 ± 3.5	146 ± 4.4		145 ± 4.5
100.0	146 ± 4.6	160 ± 2.8	151 ± 10.7	157 ± 2.5	157 ± 7.9
333.0	168 ± 9.6	174 ± 9.2	160 ± 1.2 ^P	175 ± 4.7	154 ± 4.7 ^P
1000.0	196 ± 4.5	151 ± 10.1	216 ± 7.5	179 ± 1.2	209 ± 11.0
2000.0		122 ± 11.0		152 ± 20.0	
Trial Summary	Equivocal	Negative	Weakly Positive	Equivocal	Weakly Positive
Positive Control ²					1750 ± 82.9
Positive Control ³			2119 ± 66.6	1897 ± 17.6	
Positive Control ⁴	1066 ± 25.2	958 ± 7.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	111 ± 4.0
10.0	134 ± 3.2
33.0	
100.0	147 ± 9.2
333.0	154 ± 3.8
1000.0	128 ± 35.2
2000.0	91 ± 15.6
Trial Summary	Equivocal
Positive Control ²	950 ± 44.0
Positive Control ³	
Positive Control ⁴	

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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	30 ± 4.0	29 ± 1.9	14 ± 2.0	11 ± 1.0	10 ± 1.7
10.0	29 ± 1.0		18 ± 1.5	17 ± 1.8	16 ± 0.7
33.0	35 ± 1.5	32 ± 1.8	17 ± 0.9		22 ± 2.3
100.0	39 ± 1.0	31 ± 1.8	29 ± 1.5	21 ± 5.5	28 ± 1.8
333.0	54 ± 5.0	38 ± 3.3	64 ± 5.9 ^p	24 ± 0.6	61 ± 3.2 ^p
1000.0	128 ± 6.2	43 ± 6.1	136 ± 6.1	28 ± 0.3	121 ± 2.3
2000.0		43 ± 3.3		44 ± 1.9	
Trial Summary	Positive	Negative	Positive	Positive	Positive
Positive Control ²					170 ± 10.1
Positive Control ³			137 ± 2.3	109 ± 2.1	
Positive Control ⁴	831 ± 12.8	944 ± 65.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.9
10.0	12 ± 2.6
33.0	
100.0	24 ± 0.7
333.0	25 ± 3.5
1000.0	34 ± 1.8
2000.0	38 ± 7.2
Trial Summary	Positive
Positive Control ²	107 ± 5.2
Positive Control ³	
Positive Control ⁴	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 4.4	95 ± 3.5	151 ± 12.2	142 ± 1.8	147 ± 2.9
0.1		99 ± 9.0			
0.3		110 ± 6.7			
1.0		118 ± 10.5		151 ± 2.7	
3.3		163 ± 4.4		146 ± 4.7	
10.0	228 ± 14.7	198 ± 6.2	236 ± 10.4	189 ± 4.5	201 ± 10.0
33.0	200 ± 4.3		170 ± 13.2	177 ± 4.5	185 ± 11.1
100.0	63 ± 5.1		125 ± 18.9	176 ± 18.2	259 ± 7.9
333.0	38 ± 0.7		41 ± 6.4 ^P		52 ± 9.7 ^P
1000.0	84 ± 2.2		92 ± 11.3		49 ± 6.3
Trial Summary	Equivocal	Positive	Equivocal	Equivocal	Equivocal
Positive Control ²					972 ± 82.2
Positive Control ³			1354 ± 14.7	1465 ± 35.3	
Positive Control ⁵	810 ± 11.7	499 ± 56.8			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	119 ± 2.5
0.1	
0.3	
1.0	135 ± 6.8
3.3	140 ± 5.2
10.0	178 ± 8.0
33.0	163 ± 14.5
100.0	127 ± 23.8
333.0	
1000.0	
Trial Summary	Equivocal
Positive Control ²	1021 ± 81.5
Positive Control ³	
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 ± 2.5	17 ± 0.6	36 ± 1.5	38 ± 4.9	36 ± 0.9
10.0	34 ± 0.9		56 ± 3.5	69 ± 6.2	72 ± 3.8
33.0	41 ± 3.9	49 ± 2.0	95 ± 4.5		101 ± 2.9
100.0	63 ± 2.0	45 ± 5.5	144 ± 4.8	140 ± 9.7	150 ± 3.8
333.0	78 ± 3.6	66 ± 8.9	128 ± 12.1 ^P	137 ± 1.0	194 ± 15.6 ^P
1000.0	189 ± 18.3	84 ± 4.6	157 ± 11.8	92 ± 5.8	226 ± 12.8
2000.0		115 ± 1.5		68 ± 13.8	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1562 ± 4.9
Positive Control ³			1811 ± 59.3	1442 ± 68.8	
Positive Control ⁶	1885 ± 136.6	1997 ± 13.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 2.0
10.0	74 ± 5.2
33.0	
100.0	131 ± 6.5
333.0	161 ± 8.0
1000.0	159 ± 0.9
2000.0	86 ± 8.3
Trial Summary	Positive
Positive Control ²	940 ± 11.7
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

**** END OF REPORT ****