

Experiment Number: 597227

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

G06: Ames Summary Data

Test Compound: **C.I. Direct blue 8**

CAS Number: **2429-71-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **18:44:35**

NTP Study Number:

597227

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% Rat S9
Vehicle Control ¹	98 ± 3.8	96 ± 5.8	137 ± 1.7	147 ± 2.6	139 ± 0.9
33.0	122 ± 8.4		157 ± 4.8		
100.0	135 ± 10.4 ^P	114 ± 1.0 ^P	152 ± 5.5 ^P	140 ± 15.1 ^P	142 ± 13.3 ^P
333.0	127 ± 7.9 ^P	109 ± 7.2 ^P	154 ± 2.3 ^P	151 ± 1.0 ^P	121 ± 17.0 ^P
1000.0	123 ± 8.2 ^P	123 ± 10.0 ^P	193 ± 2.6 ^P	163 ± 2.5 ^P	159 ± 6.1 ^P
1666.0		113 ± 12.5 ^P		161 ± 6.7 ^P	127 ± 6.2 ^P
3333.0	106 ± 7.5 ^P	119 ± 6.1 ^P	122 ± 4.9 ^P	139 ± 5.2 ^P	113 ± 17.3 ^P
Trial Summary	Equivocal	Negative	Equivocal	Negative	Negative
Positive Control ²			885 ± 103.7	550 ± 48.0	694 ± 24.2
Positive Control ³	405 ± 7.1	258 ± 18.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	143 ± 5.5	134 ± 12.6
33.0	164 ± 6.1	
100.0	158 ± 15.9 ^P	127 ± 10.9 ^P
333.0	176 ± 9.3 ^P	143 ± 8.5 ^P
1000.0	169 ± 8.5 ^P	139 ± 9.3 ^P
1666.0		130 ± 13.9 ^P
3333.0	138 ± 4.6 ^P	100 ± 8.7 ^P
Trial Summary	Equivocal	Negative
Positive Control ²	1065 ± 143.4	1091 ± 279.2
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	25 ± 3.8	15 ± 1.5	11 ± 1.5	7 ± 1.2	6 ± 1.3
33.0	27 ± 1.8		9 ± 2.2		10 ± 1.2
100.0	22 ± 2.2 ^p	17 ± 0.3 ^p	8 ± 2.3 ^p	7 ± 0.9 ^p	8 ± 2.3 ^p
333.0	32 ± 3.7 ^p	15 ± 2.3 ^p	11 ± 2.3 ^p	9 ± 1.5 ^p	10 ± 1.9 ^p
1000.0	24 ± 2.6 ^p	14 ± 2.9 ^p	11 ± 2.2 ^p	5 ± 0.6 ^p	9 ± 2.3 ^p
1666.0		20 ± 2.3 ^p		6 ± 1.0 ^p	
3333.0	17 ± 2.5 ^p	11 ± 2.3 ^p	11 ± 0.3 ^p	6 ± 1.7 ^p	5 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	452 ± 12.8	243 ± 13.2			
Positive Control ⁴			162 ± 11.8	109 ± 6.6	437 ± 22.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9
33.0	
100.0	7 ± 1.2 ^p
333.0	12 ± 3.0 ^p
1000.0	7 ± 0.6 ^p
1666.0	8 ± 0.7 ^p
3333.0	7 ± 1.5 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	318 ± 29.7

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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	3 ± 1.3	4 ± 0.6	9 ± 2.2	9 ± 2.1	7 ± 1.9
33.0	5 ± 2.0		9 ± 1.3		8 ± 2.6
100.0	6 ± 1.2 ^p	6 ± 1.5 ^p	10 ± 2.2 ^p	9 ± 0.3 ^p	11 ± 1.9 ^p
333.0	4 ± 0.7 ^p	4 ± 2.3 ^p	6 ± 1.5 ^p	9 ± 2.0 ^p	10 ± 1.2 ^p
1000.0	5 ± 1.9 ^p	5 ± 0.3 ^p	9 ± 0.7 ^p	10 ± 1.8 ^p	9 ± 0.3 ^p
1666.0		4 ± 0.0 ^p		10 ± 1.2 ^p	
3333.0	5 ± 0.3 ^p	4 ± 1.2 ^p	5 ± 2.2 ^p	7 ± 2.0 ^p	6 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			116 ± 23.4	129 ± 1.0	409 ± 14.9
Positive Control ⁵	149 ± 27.8	103 ± 11.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9
33.0	
100.0	10 ± 2.2 ^p
333.0	10 ± 0.6 ^p
1000.0	9 ± 2.3 ^p
1666.0	6 ± 1.5 ^p
3333.0	6 ± 0.3 ^p
Trial Summary	Negative
Positive Control ⁴	286 ± 17.9
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	16 ± 0.7	16 ± 1.2	24 ± 3.9	31 ± 1.5	31 ± 0.0
33.0	21 ± 1.8		28 ± 4.0		32 ± 2.2
100.0	19 ± 4.4 ^p	20 ± 4.3 ^p	33 ± 0.6 ^p	34 ± 3.0 ^p	32 ± 0.6 ^p
333.0	17 ± 0.3 ^p	19 ± 2.5 ^p	37 ± 1.2 ^p	32 ± 3.8 ^p	36 ± 2.3 ^p
1000.0	20 ± 3.5 ^p	12 ± 1.7 ^p	28 ± 4.2 ^p	35 ± 2.6 ^p	35 ± 3.3 ^p
1666.0		13 ± 2.3 ^p		25 ± 1.8 ^p	
3333.0	12 ± 1.9 ^p	8 ± 1.9 ^p	13 ± 4.4 ^p	19 ± 2.0 ^p	22 ± 2.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			414 ± 16.7	384 ± 16.8	827 ± 37.4
Positive Control ⁶	830 ± 6.0	562 ± 41.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 5.3
33.0	
100.0	35 ± 2.0 ^P
333.0	32 ± 4.4 ^P
1000.0	35 ± 1.5 ^P
1666.0	33 ± 3.2 ^P
3333.0	23 ± 4.9 ^P
Trial Summary	Negative
Positive Control ²	881 ± 191.7
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: Water

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

p: Precipitate

**** END OF REPORT ****