

Experiment Number: 921044

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct black 38

CAS Number: 1937-37-7

Date Report Requested: 09/17/2018

Time Report Requested: 06:39:53

NTP Study Number: 921044

Study Result: Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 10.3	164 ± 14.1	129 ± 17.7	153 ± 1.3	136 ± 12.3
33.0			155 ± 11.8		155 ± 14.6
100.0	101 ± 8.6	257 ± 14.5	227 ± 13.0	234 ± 17.8	185 ± 19.7
333.0	119 ± 10.8	338 ± 19.0	259 ± 18.0	257 ± 23.6	194 ± 12.2
1000.0	115 ± 5.0	367 ± 22.3	170 ± 47.8	338 ± 13.3	214 ± 23.0
3333.0	140 ± 3.3	198 ± 5.2	155 ± 0.9	297 ± 6.7	213 ± 25.7
10000.0	125 ± 2.6	157 ± 6.2		172 ± 27.7	
Trial Summary	Negative	Positive	Positive	Positive	Weakly Positive
Positive Control ²		1520 ± 199.8	1741 ± 146.1	972 ± 17.8	1834 ± 79.6
Positive Control ³	863 ± 108.5				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.7	11 ± 1.9	11 ± 1.2
100.0	9 ± 0.7	13 ± 1.0	11 ± 0.5
333.0	8 ± 0.9	11 ± 0.7	8 ± 0.3
1000.0	8 ± 0.3	16 ± 0.7	12 ± 1.5
3333.0	9 ± 1.2	13 ± 0.7	7 ± 1.5
10000.0	6 ± 0.3	10 ± 0.3	8 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control ²		91 ± 12.7	109 ± 12.3
Positive Control ³	1290 ± 50.7		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.6	11 ± 1.0	16 ± 2.6	13 ± 2.2	16 ± 2.0
33.0			21 ± 0.9		18 ± 1.5
100.0	4 ± 0.6	24 ± 1.0	24 ± 3.2	21 ± 1.5	20 ± 3.2
333.0	7 ± 0.3	41 ± 1.0	30 ± 2.4	24 ± 2.6	26 ± 3.1
1000.0	5 ± 0.9	33 ± 0.7	18 ± 4.0	15 ± 1.9	22 ± 2.0
3333.0	8 ± 0.5	16 ± 0.7	16 ± 3.4	8 ± 0.7	13 ± 3.7
10000.0	4 ± 0.6	11 ± 0.6		10 ± 1.5	
Trial Summary	Negative	Positive	Weakly Positive	Weakly Positive	Negative
Positive Control ²		172 ± 15.5	147 ± 22.2	193 ± 25.2	114 ± 5.6
Positive Control ⁴	588 ± 125.0				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.7	21 ± 2.9	47 ± 5.9	18 ± 2.3	42 ± 5.2
33.0			205 ± 19.0		143 ± 30.3
100.0	20 ± 0.5	179 ± 7.1	237 ± 33.3	150 ± 10.0	167 ± 7.7
333.0	19 ± 0.5	331 ± 51.2	343 ± 12.5	168 ± 10.7	168 ± 13.0
1000.0	24 ± 1.0	372 ± 67.6	92 ± 18.2	93 ± 16.6	56 ± 26.2
3333.0	24 ± 2.3	75 ± 5.2	58 ± 12.8	38 ± 2.4	31 ± 6.3
10000.0	28 ± 0.3	34 ± 3.2		29 ± 0.6	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		954 ± 70.3	821 ± 62.6	1635 ± 89.5	1473 ± 76.1
Positive Control ⁵	343 ± 24.3				

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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: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****