

Experiment Number: 069713

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct green 1

CAS Number: 3626-28-6

Date Report Requested: 09/10/2018

Time Report Requested: 18:51:20

NTP Study Number:

069713

Study Result:

Weakly 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	113 ± 8.7	85 ± 5.5	108 ± 3.7	105 ± 3.5	111 ± 5.2
100.0	110 ± 9.5	113 ± 4.3	136 ± 4.3	142 ± 4.9	107 ± 5.5
333.0	110 ± 4.2 ^p	102 ± 7.7 ^p	155 ± 15.8 ^p	139 ± 7.2 ^p	128 ± 1.2 ^p
1000.0	112 ± 12.7 ^p	108 ± 2.7 ^p	124 ± 6.9 ^p	108 ± 7.4 ^p	109 ± 9.2 ^p
3333.0	96 ± 2.6 ^p	107 ± 4.0 ^p	112 ± 11.0 ^p	104 ± 18.0 ^p	118 ± 3.4 ^p
6666.0	96 ± 7.8 ^p	86 ± 8.9 ^p	95 ± 5.0 ^p	109 ± 10.8 ^p	106 ± 2.6 ^p
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²	378 ± 12.7	208 ± 16.4			
Positive Control ³			399 ± 24.4	438 ± 5.6	1408 ± 32.1

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	94 ± 3.8
100.0	138 ± 14.0
333.0	150 ± 11.4 ^P
1000.0	119 ± 9.3 ^P
3333.0	128 ± 4.0 ^P
6666.0	123 ± 9.2 ^P
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	1024 ± 61.8

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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	29 ± 0.9	21 ± 3.3	14 ± 0.9	9 ± 1.9	7 ± 1.5
100.0	38 ± 1.2	22 ± 1.5	10 ± 1.7	9 ± 2.4	7 ± 1.0
333.0	31 ± 0.6 ^P	19 ± 1.8 ^P	9 ± 2.4 ^P	6 ± 0.3 ^P	12 ± 2.4 ^P
1000.0	40 ± 5.5 ^P	18 ± 3.1 ^P	12 ± 1.5 ^P	9 ± 1.5 ^P	12 ± 1.2 ^P
3333.0	32 ± 3.3 ^P	13 ± 3.8 ^P	25 ± 2.6 ^P	13 ± 4.3 ^P	30 ± 4.4 ^P
6666.0	6 ± 1.7 ^S	12 ± 3.7 ^P	38 ± 2.9 ^P	13 ± 0.6 ^P	32 ± 3.1 ^P
Trial Summary	Negative	Negative	Weakly Positive	Negative	Positive
Positive Control ²	392 ± 7.5	250 ± 13.5			
Positive Control ⁴			168 ± 3.8	158 ± 11.5	435 ± 25.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
100.0	7 ± 1.0
333.0	9 ± 0.3 ^p
1000.0	11 ± 2.4 ^p
3333.0	14 ± 0.3 ^p
6666.0	14 ± 1.5 ^p
Trial Summary	Equivocal
Positive Control ²	
Positive Control ⁴	351 ± 10.4

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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 ± 0.9	4 ± 0.7	5 ± 0.9	3 ± 0.9	7 ± 0.9
100.0	6 ± 1.5	6 ± 1.2	11 ± 2.1	7 ± 1.9	14 ± 2.8
333.0	5 ± 1.2 ^p	6 ± 1.2 ^p	10 ± 1.5 ^p	7 ± 1.9 ^p	14 ± 0.9 ^p
1000.0	5 ± 0.9 ^p	8 ± 1.0 ^p	11 ± 3.2 ^p	7 ± 1.5 ^p	8 ± 0.9 ^p
3333.0	6 ± 1.5 ^p	10 ± 1.5 ^p	4 ± 0.6 ^p	5 ± 0.9 ^p	7 ± 1.0 ^p
6666.0	4 ± 1.5 ^p	5 ± 1.7 ^p	9 ± 2.7 ^p	5 ± 0.7 ^p	7 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			168 ± 8.5	114 ± 5.7	465 ± 40.4
Positive Control ⁵	135 ± 32.9	157 ± 28.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.4
100.0	8 ± 1.9
333.0	7 ± 0.3 ^p
1000.0	7 ± 1.2 ^p
3333.0	7 ± 1.8 ^p
6666.0	6 ± 1.0 ^p
Trial Summary	Negative
Positive Control ⁴	354 ± 22.2
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	17 ± 1.9	17 ± 2.2	31 ± 0.9	17 ± 3.6	37 ± 1.2
100.0	20 ± 3.5	14 ± 0.9	39 ± 1.5	32 ± 4.3	32 ± 4.3
333.0	16 ± 0.7 ^P	17 ± 1.7 ^P	43 ± 5.7 ^P	28 ± 2.4 ^P	37 ± 3.0 ^P
1000.0	17 ± 0.3 ^P	9 ± 1.3 ^P	20 ± 0.3 ^P	17 ± 1.2 ^P	28 ± 0.7 ^P
3333.0	15 ± 1.5 ^P	11 ± 1.2 ^P	20 ± 3.2 ^P	17 ± 1.2 ^P	20 ± 2.6 ^P
6666.0	11 ± 0.9 ^P	9 ± 0.9 ^P	17 ± 2.0 ^P	15 ± 3.0 ^P	20 ± 4.4 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			396 ± 14.7	386 ± 14.6	1249 ± 19.0
Positive Control ⁶	298 ± 9.2	325 ± 9.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 2.7
100.0	30 ± 9.7
333.0	44 ± 2.3 ^P
1000.0	24 ± 3.7 ^P
3333.0	14 ± 1.8 ^P
6666.0	11 ± 0.7 ^P
Trial Summary	Negative
Positive Control ³	948 ± 61.4
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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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

s: Slight Toxicity

**** END OF REPORT ****