

Experiment Number: 536355

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

G06: Ames Summary Data

Test Compound: **C.I. Direct red 2**

CAS Number: **992-59-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **00:22:14**

NTP Study Number:

536355

Study Result:

Negative

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Date Report Requested: 09/13/2018

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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	129 ± 1.8	150 ± 7.9	143 ± 11.1	124 ± 8.6	145 ± 6.9
100.0	134 ± 9.1	139 ± 6.2	135 ± 4.3	141 ± 3.5	138 ± 3.8
333.0	127 ± 5.6	125 ± 8.1	140 ± 7.4	135 ± 1.8	143 ± 3.7
1000.0	146 ± 6.8 ^P	136 ± 14.4 ^P	148 ± 4.1 ^P	162 ± 4.9 ^P	142 ± 5.9 ^P
3333.0	127 ± 12.5 ^P	105 ± 11.1 ^S	127 ± 2.0 ^P	150 ± 4.7 ^P	130 ± 3.9 ^P
10000.0	37 ± 28.0 ^P	80 ± 9.8 ^S	117 ± 12.4 ^P	114 ± 2.4 ^P	110 ± 5.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1727 ± 79.6
Positive Control ³			1244 ± 12.4	1198 ± 43.2	
Positive Control ⁴	906 ± 10.0	1258 ± 27.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	129 ± 0.7
100.0	137 ± 10.2
333.0	139 ± 11.0
1000.0	125 ± 14.0 ^P
3333.0	114 ± 2.3 ^P
10000.0	129 ± 11.2 ^P
Trial Summary	Negative
Positive Control ²	1149 ± 11.0
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	22 ± 2.1	31 ± 7.5	17 ± 0.7	13 ± 2.9	14 ± 0.9
100.0	29 ± 1.2	25 ± 3.0	19 ± 3.1	13 ± 0.6	13 ± 0.9
333.0	18 ± 0.7	31 ± 4.1	17 ± 1.7	13 ± 1.9	16 ± 3.4
1000.0	26 ± 2.8 ^P	23 ± 4.1 ^P	14 ± 3.1 ^P	16 ± 1.2 ^P	16 ± 3.8 ^P
3333.0	20 ± 1.3 ^P	21 ± 2.5 ^S	16 ± 1.2 ^P	13 ± 0.7 ^P	16 ± 0.3 ^P
10000.0	12 ± 3.0 ^P	Toxic	12 ± 1.5 ^P	14 ± 0.3 ^P	15 ± 1.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					122 ± 7.5
Positive Control ³			77 ± 6.9	99 ± 5.2	
Positive Control ⁴	718 ± 5.4	976 ± 61.0			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.6
100.0	12 ± 2.6
333.0	18 ± 2.0
1000.0	14 ± 0.7 ^P
3333.0	13 ± 0.6 ^P
10000.0	17 ± 4.4 ^P
Trial Summary	Negative
Positive Control ²	96 ± 4.4
Positive Control ³	
Positive Control 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	7 ± 1.2	4 ± 0.6	11 ± 3.2	12 ± 1.5	12 ± 1.8
100.0	6 ± 2.2	6 ± 1.2	9 ± 3.0	9 ± 1.7	9 ± 1.5
333.0	9 ± 0.7	5 ± 1.2	11 ± 1.9	8 ± 0.3	12 ± 3.1
1000.0	9 ± 1.2 ^p	5 ± 1.0 ^p	9 ± 1.5 ^p	9 ± 1.9 ^p	12 ± 0.9 ^p
3333.0	5 ± 1.2 ^p	4 ± 1.3 ^s	10 ± 1.3 ^p	8 ± 1.5 ^p	12 ± 1.5 ^p
10000.0	5 ± 2.2 ^p	4 ± 1.5 ^s	9 ± 1.9 ^p	8 ± 0.3 ^p	7 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					194 ± 4.6
Positive Control ³			138 ± 14.5	109 ± 6.8	
Positive Control ⁵	827 ± 10.5	193 ± 23.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.2
100.0	10 ± 1.8
333.0	7 ± 1.2
1000.0	9 ± 1.2 ^P
3333.0	9 ± 2.8 ^P
10000.0	4 ± 1.2 ^P
Trial Summary	Negative
Positive Control ²	99 ± 3.7
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	21 ± 1.7	16 ± 3.2	33 ± 1.2	24 ± 1.9	41 ± 0.6
100.0	17 ± 2.0	17 ± 2.3	34 ± 0.3	30 ± 3.7	36 ± 1.9
333.0	22 ± 2.6	16 ± 3.1	33 ± 4.1	34 ± 5.3	33 ± 1.9
1000.0	17 ± 3.0 ^P	19 ± 1.3 ^P	29 ± 1.0 ^P	37 ± 1.5 ^P	30 ± 1.7 ^P
3333.0	21 ± 0.9 ^P	20 ± 3.0 ^P	38 ± 2.8 ^P	42 ± 2.2 ^P	30 ± 0.9 ^P
10000.0	17 ± 0.9 ^P	16 ± 1.5 ^P	26 ± 5.0 ^P	25 ± 1.7 ^P	20 ± 4.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1286 ± 115.8
Positive Control ³			1063 ± 82.4	1146 ± 9.6	
Positive Control ⁶	1341 ± 89.3	1636 ± 108.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 3.4
100.0	33 ± 5.0
333.0	29 ± 6.0
1000.0	26 ± 4.3 ^P
3333.0	25 ± 1.3 ^P
10000.0	23 ± 4.6 ^P
Trial Summary	Negative
Positive Control ²	1248 ± 41.9
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: 80.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****