

Experiment Number: **281330**

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

G06: Ames Summary Data

Test Compound: **C.I. Direct red 39**

CAS Number: **6358-29-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **14:57:00**

NTP Study Number:

281330

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% Hamster S9
Vehicle Control ¹	142 ± 2.8	122 ± 7.4	117 ± 3.5	154 ± 3.2	123 ± 5.0
100.0	104 ± 5.2	92 ± 9.0	144 ± 9.7	144 ± 10.0	112 ± 11.5
333.0	96 ± 6.2	86 ± 6.1	139 ± 6.6	136 ± 4.5	137 ± 1.5
1000.0	85 ± 8.4 ^D	75 ± 5.5 ^D	103 ± 7.5	104 ± 10.5	97 ± 4.0
3333.0	83 ± 4.7 ^D	63 ± 11.3 ^D	91 ± 3.1 ^D	84 ± 6.8 ^D	89 ± 14.7 ^D
10000.0	82 ± 3.8 ^D	53 ± 7.5 ^D	83 ± 7.7 ^D	82 ± 4.3 ^D	91 ± 6.7 ^D
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1719 ± 50.0
Positive Control ³			1886 ± 56.6	1135 ± 36.2	
Positive Control ⁴	1344 ± 28.6	1350 ± 24.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	137 ± 5.5
100.0	123 ± 9.8
333.0	135 ± 3.7
1000.0	88 ± 9.5
3333.0	81 ± 5.9 ^p
10000.0	75 ± 7.1 ^p
Trial Summary	Negative
Positive Control ²	1380 ± 39.0
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	28 ± 2.9	38 ± 2.8	15 ± 2.1	47 ± 0.7	15 ± 1.8
100.0	21 ± 1.5	20 ± 1.3	13 ± 2.8	49 ± 3.6	15 ± 3.0
333.0	22 ± 3.8	17 ± 1.3	19 ± 1.2	35 ± 2.3	13 ± 1.2
1000.0	20 ± 3.5 ^p	18 ± 1.2 ^p	13 ± 2.7	21 ± 3.6	12 ± 2.3
3333.0	15 ± 2.4 ^p	14 ± 1.2 ^p	10 ± 2.4 ^p	20 ± 2.2 ^p	12 ± 0.9 ^p
10000.0	12 ± 2.3 ^p	10 ± 1.2 ^p	19 ± 2.4 ^p	16 ± 2.1 ^p	7 ± 1.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					176 ± 11.0
Positive Control ³			179 ± 7.8	163 ± 2.0	
Positive Control ⁴	1012 ± 29.2	933 ± 39.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	38 ± 3.8
100.0	35 ± 2.7
333.0	27 ± 3.3
1000.0	26 ± 1.8
3333.0	14 ± 0.6 ^p
10000.0	15 ± 1.3 ^p
Trial Summary	Negative
Positive Control ²	240 ± 1.7
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	6 ± 1.2	6 ± 1.3	8 ± 1.5	8 ± 2.9	6 ± 1.8
100.0	7 ± 1.9	9 ± 2.0	10 ± 0.9	5 ± 2.3	10 ± 2.2
333.0	9 ± 0.7	8 ± 1.3	10 ± 2.7	8 ± 0.7	11 ± 3.3
1000.0	4 ± 1.5 ^p	6 ± 0.3 ^p	7 ± 0.9	7 ± 0.9	7 ± 2.3
3333.0	5 ± 1.5 ^p	5 ± 0.3 ^p	8 ± 1.3 ^p	6 ± 2.0 ^p	5 ± 0.3 ^p
10000.0	5 ± 0.3 ^p	5 ± 1.5 ^p	8 ± 3.5 ^p	6 ± 1.5 ^p	8 ± 1.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					139 ± 4.9
Positive Control ³			155 ± 11.3	112 ± 0.6	
Positive Control ⁵	89 ± 6.2	244 ± 22.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.3
100.0	10 ± 0.9
333.0	8 ± 2.2
1000.0	6 ± 1.2
3333.0	6 ± 1.8 ^p
10000.0	5 ± 1.5 ^p
Trial Summary	Negative
Positive Control ²	113 ± 15.0
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	18 ± 3.4	17 ± 1.7	29 ± 2.0	22 ± 2.0	29 ± 2.1
100.0	16 ± 5.7	17 ± 1.3	42 ± 6.2	23 ± 3.9	33 ± 3.2
333.0	17 ± 2.2	13 ± 2.1	29 ± 2.7	22 ± 1.5	52 ± 5.5
1000.0	14 ± 2.6 ^p	16 ± 0.9 ^p	25 ± 1.2	12 ± 1.5	26 ± 2.7
3333.0	14 ± 0.9 ^p	21 ± 2.0 ^p	19 ± 4.2 ^p	13 ± 2.3 ^p	19 ± 0.9 ^p
10000.0	17 ± 3.3 ^p	20 ± 1.9 ^p	22 ± 2.6 ^p	11 ± 0.7 ^p	17 ± 3.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					1344 ± 50.8
Positive Control ³			1532 ± 6.6	1054 ± 35.8	
Positive Control ⁶	1815 ± 89.1	1204 ± 23.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.5
100.0	18 ± 3.3
333.0	22 ± 0.9
1000.0	14 ± 1.3
3333.0	15 ± 1.7 ^p
10000.0	16 ± 2.4 ^p
Trial Summary	Negative
Positive Control ²	1151 ± 8.7
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: 80.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

**** END OF REPORT ****