

Experiment Number: 655778

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: D & C orange 5 zirconium lake

CAS Number: 1719-05-7

Date Report Requested: 09/11/2018

Time Report Requested: 11:08:56

NTP Study Number:

655778

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	107 ± 5.0	102 ± 4.4	113 ± 6.1	139 ± 6.2	126 ± 5.3
100.0	109 ± 3.9	115 ± 9.8	114 ± 8.8	144 ± 4.0	132 ± 3.0
333.0	102 ± 10.7	120 ± 13.9	109 ± 13.9	157 ± 4.7	139 ± 13.9
1000.0	92 ± 3.2	100 ± 5.2	107 ± 3.1	131 ± 11.9	127 ± 9.7
3333.0	97 ± 5.5	103 ± 2.6	121 ± 3.2	135 ± 3.5	134 ± 6.9
10000.0	94 ± 3.9	93 ± 11.9	105 ± 6.1	120 ± 7.4	98 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					435 ± 8.5
Positive Control ³			329 ± 14.5		
Positive Control ⁴				273 ± 10.0	
Positive Control ⁵	769 ± 25.8	1013 ± 19.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	129 ± 4.9
100.0	132 ± 5.6
333.0	131 ± 4.2
1000.0	134 ± 2.9
3333.0	134 ± 4.1
10000.0	120 ± 9.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	417 ± 32.1
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.2	9 ± 0.6	10 ± 1.8	11 ± 1.7	10 ± 1.2
100.0	11 ± 0.6	9 ± 1.8	12 ± 1.5	10 ± 4.1	10 ± 0.6
333.0	11 ± 0.9	13 ± 0.6	12 ± 1.5	12 ± 1.2	9 ± 2.6
1000.0	9 ± 1.7	10 ± 0.6	11 ± 0.3	10 ± 1.8	8 ± 0.7
3333.0	7 ± 0.3	11 ± 0.3	10 ± 1.0	14 ± 2.2	9 ± 0.6
10000.0	8 ± 1.5	6 ± 1.5	9 ± 1.2	11 ± 0.7	9 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					106 ± 2.9
Positive Control ⁴			89 ± 6.1		
Positive Control ⁵	852 ± 28.4	804 ± 49.2			
Positive Control ⁶				101 ± 6.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.0
100.0	10 ± 1.5
333.0	10 ± 1.5
1000.0	13 ± 0.3
3333.0	12 ± 1.5
10000.0	9 ± 0.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	448 ± 8.2
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	131 ± 9.2	113 ± 6.6	140 ± 9.4	170 ± 6.6	108 ± 6.2
100.0	137 ± 6.7	126 ± 1.7	138 ± 6.7	177 ± 2.7	135 ± 5.6
333.0	135 ± 7.9	130 ± 3.5	130 ± 9.0	200 ± 13.4	134 ± 2.1
1000.0	130 ± 1.8	134 ± 0.6	161 ± 10.2	200 ± 5.8	125 ± 8.0
3333.0	136 ± 7.4	130 ± 7.2	156 ± 4.0	189 ± 7.4	105 ± 14.7
10000.0	112 ± 13.5	51 ± 22.6	109 ± 24.5	184 ± 7.4	121 ± 10.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					361 ± 17.1
Positive Control ³			293 ± 2.3		
Positive Control ⁴				375 ± 8.4	
Positive Control ⁷	441 ± 39.8	403 ± 8.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	181 ± 7.9
100.0	158 ± 13.4
333.0	168 ± 4.3
1000.0	182 ± 1.5
3333.0	193 ± 5.6
10000.0	157 ± 11.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	493 ± 12.6
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.3	12 ± 1.2	17 ± 1.7	22 ± 3.8	19 ± 0.9
100.0	17 ± 2.0	16 ± 2.3	16 ± 1.8	28 ± 1.7	16 ± 1.5
333.0	14 ± 0.9	13 ± 0.0	19 ± 0.0	24 ± 4.1	19 ± 0.9
1000.0	16 ± 3.7	12 ± 1.2	19 ± 0.3	20 ± 3.6	17 ± 0.9
3333.0	22 ± 1.5	16 ± 1.5	13 ± 0.7	20 ± 2.8	12 ± 1.5
10000.0	22 ± 1.5	14 ± 2.7	17 ± 1.3	14 ± 0.3	14 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					317 ± 6.2
Positive Control ³			211 ± 22.2		
Positive Control ⁸	302 ± 13.0	376 ± 2.3			
Positive Control ⁴				243 ± 25.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 2.6
100.0	21 ± 1.9
333.0	27 ± 0.0
1000.0	24 ± 1.9
3333.0	19 ± 0.9
10000.0	21 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	260 ± 21.2
Positive Control ⁸	
Positive Control ⁴	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****