

Experiment Number: 182428

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

G06: Ames Summary Data

Test Compound: **C.I. Food red 1**

CAS Number: **4548-53-2**

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

Time Report Requested: **19:02:40**

NTP Study Number:

182428

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 30% Rat S9
Vehicle Control ¹	107 ± 4.6	95 ± 6.8	106 ± 12.0	144 ± 5.0	124 ± 3.2
1.0					
3.3					
10.0					
33.0					
100.0	90 ± 25.0	104 ± 8.4	97 ± 5.7	131 ± 2.2	142 ± 10.4
333.0	117 ± 2.4	113 ± 3.3	94 ± 8.5	155 ± 5.2	155 ± 2.0
1000.0	133 ± 3.7	100 ± 3.2	79 ± 4.6	155 ± 6.3	56 ± 8.6
3333.0	109 ± 8.2	121 ± 7.9	102 ± 13.9	146 ± 1.9	98 ± 3.2
10000.0	116 ± 9.0	96 ± 4.6	94 ± 5.6	145 ± 7.4	119 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	397 ± 8.0	502 ± 9.2			
Positive Control ⁴			691 ± 152.3		
Positive Control ⁵				967 ± 21.5	
Positive Control ⁶					
Positive Control ⁷					327 ± 7.0

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	107 ± 1.2	121 ± 4.2	124 ± 3.2	110 ± 9.4
1.0				113 ± 3.5
3.3				100 ± 3.8
10.0				93 ± 3.2
33.0				115 ± 3.7
100.0	83 ± 4.0	163 ± 2.9	142 ± 10.4	112 ± 2.3
333.0	104 ± 6.8	154 ± 9.9	155 ± 2.0	120 ± 3.2
1000.0	106 ± 6.2	154 ± 10.8	56 ± 8.6	122 ± 1.9
3333.0	89 ± 5.2	150 ± 11.2	98 ± 3.2	138 ± 6.1
10000.0	117 ± 8.4	162 ± 3.0	119 ± 5.5	114 ± 8.2
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²	688 ± 6.3			
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵				735 ± 106.9
Positive Control ⁶		702 ± 25.8		
Positive Control ⁷			327 ± 7.0	

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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	22 ± 2.3	27 ± 2.6	18 ± 3.5	16 ± 2.0	23 ± 3.3
100.0	25 ± 1.5	30 ± 1.2	25 ± 1.8	13 ± 3.2	17 ± 1.3
333.0	17 ± 1.9	24 ± 5.5	17 ± 4.4	18 ± 3.2	15 ± 2.2
1000.0	13 ± 0.7	27 ± 0.9	19 ± 0.6	13 ± 1.2	11 ± 5.8
3333.0	23 ± 2.9	30 ± 5.4	17 ± 3.0	13 ± 1.9	22 ± 1.0
10000.0	19 ± 1.9	30 ± 3.5	22 ± 1.5	12 ± 2.0	13 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					145 ± 2.8
Positive Control ³	243 ± 29.2	327 ± 20.3			
Positive Control ⁵					
Positive Control ⁶			537 ± 537.3 ^x	183 ± 4.0	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.9
100.0	14 ± 3.4
333.0	12 ± 1.2
1000.0	12 ± 1.2
3333.0	18 ± 1.2
10000.0	17 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	188 ± 12.2
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	97 ± 2.9	113 ± 4.7	153 ± 0.7	163 ± 1.7	145 ± 10.4
100.0	94 ± 5.3	118 ± 8.2	135 ± 3.8	146 ± 4.1	129 ± 7.6
333.0	106 ± 6.7	122 ± 10.7	143 ± 10.3	144 ± 2.3	137 ± 2.3
1000.0	104 ± 11.9	104 ± 6.1	136 ± 1.2	139 ± 7.7	140 ± 4.7
3333.0	110 ± 5.0	89 ± 25.0	134 ± 5.3	135 ± 4.4	146 ± 0.9
10000.0	106 ± 4.9	116 ± 1.2	130 ± 4.7	119 ± 3.8	159 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁸	302 ± 7.0	582 ± 16.5			
Positive Control ⁴					932 ± 175.2
Positive Control ⁶			1364 ± 683.8	699 ± 14.4	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 8.4
100.0	146 ± 9.2
333.0	136 ± 6.7
1000.0	160 ± 2.1
3333.0	150 ± 7.6
10000.0	131 ± 10.8
Trial Summary	Negative
Positive Control ⁸	
Positive Control ⁴	
Positive Control ⁶	994 ± 65.9

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	20 ± 2.5	18 ± 3.0	29 ± 3.2	22 ± 0.7	45 ± 4.5
100.0	13 ± 4.1	14 ± 1.5	27 ± 2.7	23 ± 3.4	43 ± 2.7
333.0	20 ± 2.0	19 ± 1.7	33 ± 7.3	24 ± 1.2	41 ± 2.6
1000.0	17 ± 2.2	22 ± 3.7	31 ± 0.7	22 ± 1.2	19 ± 0.9
3333.0	19 ± 0.0	20 ± 3.3	33 ± 1.5	23 ± 2.0	29 ± 4.7
10000.0	14 ± 1.2	23 ± 1.9	25 ± 3.2	14 ± 2.7	25 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			460 ± 164.9		
Positive Control ⁵				374 ± 18.8	
Positive Control ⁹	355 ± 21.4	425 ± 11.6			
Positive Control ⁷					410 ± 5.3

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	29 ± 0.9	25 ± 4.6	45 ± 4.5
100.0	34 ± 3.5	40 ± 7.5	43 ± 2.7
333.0	32 ± 1.5	36 ± 4.9	41 ± 2.6
1000.0	41 ± 3.5	36 ± 1.5	19 ± 0.9
3333.0	39 ± 3.2	39 ± 3.3	29 ± 4.7
10000.0	28 ± 2.0	28 ± 3.3	25 ± 3.5
Trial Summary	Negative	Negative	Negative
Positive Control ²	664 ± 42.2		
Positive Control ⁵		372 ± 8.4	
Positive Control ⁹			
Positive Control ⁷			410 ± 5.3

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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: Dimethyl Sulfoxide

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 100.0 ug/Plate Other Positive Control

8: 0.05 ug/Plate Icr-191

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

x: Slight Toxicity and Precipitate

**** END OF REPORT ****