

Experiment Number: 287557

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

G06: Ames Summary Data

Test Compound: **C.I. Basic orange 2**

CAS Number: **532-82-1**

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

Time Report Requested: **15:51:03**

NTP Study Number:

287557

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	96 ± 5.2	108 ± 2.9	87 ± 5.5	104 ± 4.2	110 ± 7.6
3.0	104 ± 9.2				110 ± 5.2
10.0	102 ± 9.3	123 ± 11.8	112 ± 5.9	125 ± 4.3	110 ± 3.7
16.0					144 ± 4.3
33.0	105 ± 9.4	135 ± 9.7	135 ± 11.7	208 ± 13.2	182 ± 13.7
100.0	118 ± 6.6	177 ± 9.6	146 ± 3.5	179 ± 14.8	275 ± 21.3
166.0			163 ± 6.1		
333.0	20 ± 20.0 ^s	224 ± 15.4	178 ± 11.8	136 ± 22.2	
1000.0		66 ± 6.2		32 ± 17.9 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		1456 ± 35.4	385 ± 12.3	1526 ± 39.4	1123 ± 40.2
Positive Control ³	287 ± 7.3				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.4	5 ± 0.0	7 ± 0.7
3.0	25 ± 5.2		
10.0	27 ± 2.1	13 ± 2.3	10 ± 1.2
33.0	27 ± 2.1	9 ± 2.3	10 ± 1.2
100.0	30 ± 1.7	9 ± 1.3	9 ± 2.7
333.0	4 ± 0.3 ^s	8 ± 2.7	9 ± 1.5
1000.0		1 ± 1.0 ^s	4 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³	327 ± 8.2		
Positive Control ⁴		444 ± 25.2	512 ± 24.7

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.0	6 ± 0.6	4 ± 0.6	7 ± 1.2	9 ± 1.3
3.0	8 ± 0.6				
10.0	6 ± 1.9	8 ± 1.0	9 ± 2.7	10 ± 1.5	10 ± 2.5
33.0	9 ± 0.6	14 ± 2.3	12 ± 1.8	10 ± 1.0	11 ± 3.3
100.0	10 ± 0.0	28 ± 1.2	19 ± 3.2	17 ± 2.3	14 ± 2.6
166.0			32 ± 2.3		18 ± 2.0
333.0	7 ± 2.6	58 ± 7.2	37 ± 9.1	13 ± 2.0	21 ± 4.4
1000.0		1 ± 1.0 ^s		5 ± 3.7 ^s	
Trial Summary	Negative	Positive	Positive	Equivocal	Weakly Positive
Positive Control ⁴		423 ± 21.2	169 ± 2.6	473 ± 6.7	320 ± 6.1
Positive Control ⁵	161 ± 18.4				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.3	31 ± 5.2	30 ± 6.3	32 ± 3.8	25 ± 3.3
1.0			25 ± 0.7		37 ± 7.1
3.0	20 ± 2.9		33 ± 3.2		36 ± 4.0
10.0	14 ± 0.9	56 ± 2.6	48 ± 8.3	125 ± 10.8	114 ± 8.1
33.0	23 ± 3.1	149 ± 1.7	99 ± 7.2	221 ± 28.8	279 ± 8.4
100.0	26 ± 2.3	329 ± 16.3	263 ± 8.5	256 ± 19.5	347 ± 13.1
333.0	4 ± 4.0 ^s	574 ± 47.7		195 ± 2.3	
1000.0		164 ± 13.8		30 ± 4.9 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		1195 ± 37.4	230 ± 8.8	1364 ± 70.3	975 ± 13.7
Positive Control ⁶	340 ± 20.0				

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****