

Experiment Number: 537306

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

G06: Ames Summary Data

Test Compound: **C.I. Acid orange 3**

CAS Number: **6373-74-6**

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

Time Report Requested: **00:29:52**

NTP Study Number:

537306

Study Result:

Positive

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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	105 ± 6.8	96 ± 4.0	96 ± 7.6	94 ± 8.0	85 ± 6.7
10.0	90 ± 4.5	92 ± 1.9			
33.0	108 ± 2.5	108 ± 9.0	114 ± 6.3		84 ± 2.7
100.0	120 ± 7.3	103 ± 1.5	103 ± 6.1	116 ± 4.1	105 ± 6.7
333.0	259 ± 10.5	182 ± 7.9	124 ± 7.4	109 ± 9.9	118 ± 10.0
500.0	407 ± 29.2 ^s	215 ± 4.4			
667.0				175 ± 6.6	
1000.0			458 ± 22.8 ^s	346 ± 18.8 ^s	414 ± 18.8
2000.0			1024 ± 41.5 ^s	1120 ± 58.7 ^s	849 ± 31.6 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1476 ± 84.1
Positive Control ³			2189 ± 38.4	1229 ± 20.7	
Positive Control ⁴	1118 ± 10.7	956 ± 83.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	90 ± 1.2
10.0	
33.0	
100.0	99 ± 7.6
333.0	103 ± 8.9
500.0	
667.0	153 ± 10.9
1000.0	391 ± 9.8
2000.0	993 ± 25.8 ^s
Trial Summary	Positive
Positive Control ²	617 ± 7.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.6	11 ± 1.2	13 ± 1.0
10.0	23 ± 3.8		
33.0	25 ± 2.4	11 ± 1.2	9 ± 1.5
100.0	27 ± 5.3	9 ± 0.9	14 ± 1.7
333.0	29 ± 0.9 ^s	9 ± 0.6	10 ± 1.2
500.0	23 ± 2.1 ^s		
1000.0		10 ± 1.8 ^s	16 ± 2.0 ^s
2000.0		15 ± 1.2 ^s	20 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			120 ± 8.3
Positive Control ³		124 ± 10.0	
Positive Control ⁴	806 ± 16.9		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	80 ± 2.2	109 ± 5.7	141 ± 3.7	140 ± 5.2	92 ± 6.0
10.0	68 ± 4.8	96 ± 5.2			
33.0	81 ± 13.5	96 ± 3.4	131 ± 9.8		112 ± 8.0
100.0	108 ± 7.5	122 ± 12.4	151 ± 10.1	137 ± 6.0	108 ± 6.8
333.0	189 ± 5.0 ^s	201 ± 2.9 ^s	166 ± 2.1	161 ± 3.8	152 ± 1.5
500.0	162 ± 11.5 ^s	200 ± 6.9 ^s			
667.0				187 ± 7.5	
1000.0			174 ± 6.0 ^s	200 ± 8.7 ^s	201 ± 2.8 ^s
2000.0			246 ± 7.1 ^s	311 ± 9.6 ^s	233 ± 8.8 ^s
Trial Summary	Positive	Weakly Positive	Weakly Positive	Positive	Positive
Positive Control ²					947 ± 22.1
Positive Control ³			1289 ± 35.6	891 ± 46.9	
Positive Control ⁵	520 ± 39.7	735 ± 84.2			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	124 ± 3.8
10.0	
33.0	
100.0	117 ± 5.8
333.0	146 ± 4.9
500.0	
667.0	170 ± 6.6
1000.0	209 ± 13.9 ^s
2000.0	293 ± 10.3 ^s
Trial Summary	Positive
Positive Control ²	685 ± 4.8
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	19 ± 1.7	16 ± 0.6	30 ± 4.6	36 ± 1.0	32 ± 2.4
10.0	18 ± 0.0	24 ± 2.7			
33.0	20 ± 2.0	25 ± 3.0	34 ± 2.3		27 ± 2.3
100.0	34 ± 1.2	34 ± 3.5	40 ± 4.0	43 ± 1.7	34 ± 2.2
333.0	72 ± 13.5	61 ± 8.5	58 ± 4.1	58 ± 8.0	62 ± 3.3
500.0	94 ± 1.0	84 ± 7.3			
667.0				82 ± 3.5	
1000.0			97 ± 11.8	95 ± 5.6	93 ± 5.5
2000.0			243 ± 13.7 ^s	248 ± 9.3	175 ± 2.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1169 ± 65.8
Positive Control ³			1692 ± 63.1	1240 ± 38.4	
Positive Control ⁶	1804 ± 39.0	1566 ± 34.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 3.4
10.0	
33.0	
100.0	40 ± 2.8
333.0	63 ± 0.9
500.0	
667.0	79 ± 6.9
1000.0	134 ± 37.0
2000.0	228 ± 11.2
Trial Summary	Positive
Positive Control ²	718 ± 7.6
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: 4.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****