

Experiment Number: 012972

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Pigment orange 43

CAS Number: 4424-06-0

Date Report Requested: 09/14/2018

Time Report Requested: 06:37:20

NTP Study Number:

012972

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	85 ± 0.7	120 ± 1.5	90 ± 7.3	102 ± 9.0	86 ± 10.0
100.0	89 ± 2.4	105 ± 0.3	98 ± 7.3	100 ± 6.2	84 ± 5.2
333.0	84 ± 2.7	113 ± 7.2	94 ± 2.7 ^P	117 ± 10.5 ^P	109 ± 14.4 ^P
1000.0	110 ± 4.1 ^P	104 ± 5.4 ^P	102 ± 3.5 ^P	132 ± 21.4 ^P	92 ± 6.5 ^P
3333.0	116 ± 11.9 ^P	106 ± 5.8 ^P	100 ± 4.9 ^P	91 ± 4.5 ^P	93 ± 11.8 ^P
5000.0	116 ± 10.2 ^P	108 ± 9.0 ^P	113 ± 0.6 ^P	107 ± 2.4 ^P	108 ± 6.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1407 ± 16.7
Positive Control ³			1425 ± 15.9	1538 ± 16.3	
Positive Control ⁴	1071 ± 42.0	1286 ± 16.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	101 ± 2.7
100.0	99 ± 6.0
333.0	97 ± 2.2 ^P
1000.0	110 ± 8.2 ^P
3333.0	103 ± 6.8 ^P
5000.0	102 ± 5.6 ^P
Trial Summary	Negative
Positive Control ²	1150 ± 17.2
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	15 ± 2.9	22 ± 1.8	7 ± 1.0	11 ± 2.3	9 ± 2.6
100.0	19 ± 1.0	22 ± 2.6	15 ± 2.8	7 ± 1.2	9 ± 2.9
333.0	22 ± 0.7	20 ± 0.7	19 ± 5.0 ^P	17 ± 4.2 ^P	11 ± 1.8 ^P
1000.0	31 ± 2.6 ^P	19 ± 3.0 ^P	25 ± 2.9 ^P	8 ± 2.1 ^P	16 ± 3.2 ^P
3333.0	21 ± 1.5 ^P	26 ± 4.2 ^P	19 ± 8.5 ^P	14 ± 1.0 ^P	23 ± 7.6 ^P
5000.0	42 ± 4.0 ^P	24 ± 11.1 ^P	31 ± 9.3 ^P	9 ± 1.5 ^P	9 ± 4.0 ^P
Trial Summary	Weakly Positive	Negative	Weakly Positive	Negative	Equivocal
Positive Control ²					99 ± 3.2
Positive Control ³			80 ± 11.0	131 ± 14.2	
Positive Control ⁴	967 ± 33.4	1066 ± 19.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.0
100.0	12 ± 2.5
333.0	11 ± 1.5 ^P
1000.0	11 ± 1.8 ^P
3333.0	15 ± 1.3 ^P
5000.0	12 ± 1.2 ^P
Trial Summary	Negative
Positive Control ²	112 ± 7.5
Positive Control ³	
Positive Control ⁴	

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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 ± 0.9	111 ± 2.6	119 ± 8.0	136 ± 5.0	111 ± 3.5
10.0		111 ± 0.6			
33.0		118 ± 4.6			
100.0	181 ± 12.4	138 ± 4.7	125 ± 4.9	130 ± 10.7	102 ± 4.7
333.0	280 ± 8.5	275 ± 4.5	121 ± 2.3 ^P	122 ± 1.8 ^P	92 ± 6.7 ^P
1000.0	333 ± 6.1 ^P	356 ± 22.8 ^P	132 ± 4.8 ^P	134 ± 6.3 ^P	104 ± 6.0 ^P
3333.0	339 ± 8.2 ^P	340 ± 25.0 ^P	131 ± 2.9 ^P	134 ± 12.7 ^P	130 ± 10.0 ^P
5000.0	344 ± 19.8 ^P	266 ± 12.7 ^P	123 ± 4.4 ^P	138 ± 0.7 ^P	143 ± 11.2 ^P
Trial Summary	Positive	Positive	Negative	Negative	Negative
Positive Control ²					867 ± 31.3
Positive Control ³			1031 ± 36.2	1054 ± 38.8	
Positive Control ⁵	1012 ± 17.0	672 ± 78.2			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	124 ± 5.9
10.0	
33.0	
100.0	114 ± 4.0
333.0	125 ± 1.9 ^P
1000.0	121 ± 8.2 ^P
3333.0	145 ± 7.3 ^P
5000.0	125 ± 5.3 ^P
Trial Summary	Negative
Positive Control ²	668 ± 23.3
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	11 ± 0.3	17 ± 2.7	24 ± 4.9	29 ± 1.5	23 ± 1.8
10.0		26 ± 3.3			
33.0		44 ± 2.7			
100.0	128 ± 1.2	119 ± 12.9	31 ± 1.5	28 ± 2.4	26 ± 4.4
333.0	236 ± 10.1	211 ± 10.5	28 ± 3.5 ^P	25 ± 2.4 ^P	34 ± 1.5 ^P
1000.0	251 ± 8.3 ^P	257 ± 18.6 ^P	41 ± 4.5 ^P	32 ± 3.8 ^P	38 ± 2.6 ^P
3333.0	254 ± 1.3 ^P	226 ± 12.4 ^P	50 ± 8.4 ^P	42 ± 6.9 ^P	49 ± 6.7 ^P
5000.0	233 ± 5.6 ^P	188 ± 14.4 ^P	58 ± 1.3 ^P	35 ± 3.2 ^P	52 ± 3.7 ^P
Trial Summary	Positive	Positive	Weakly Positive	Negative	Weakly Positive
Positive Control ²					993 ± 41.5
Positive Control ³			1056 ± 48.6	917 ± 21.8	
Positive Control ⁶	1532 ± 31.8	1601 ± 31.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.5
10.0	
33.0	
100.0	26 ± 5.0
333.0	32 ± 1.5 ^p
1000.0	34 ± 3.3 ^p
3333.0	63 ± 0.9 ^p
5000.0	39 ± 2.4 ^p
Trial Summary	Weakly Positive
Positive Control ²	709 ± 31.0
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

p: Precipitate

** END OF REPORT **