

Experiment Number: 232492

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

G06: Ames Summary Data

Test Compound: **C.I. Pigment yellow 74**

CAS Number: 6358-31-2

Date Report Requested: **09/15/2018**

Time Report Requested: **04:00:47**

NTP Study Number:

232492

Study Result:

Negative

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Date Report Requested: 09/15/2018

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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	121 ± 0.7	113 ± 8.8	115 ± 8.2	93 ± 3.8	102 ± 5.8
33.0		106 ± 4.1		103 ± 5.2	
100.0	124 ± 6.1	107 ± 7.5	132 ± 5.3	115 ± 1.2	91 ± 4.2
333.0	124 ± 6.2	97 ± 7.7	108 ± 12.1	114 ± 2.0	108 ± 5.5
1000.0	102 ± 2.5	95 ± 4.5 ^P	111 ± 9.3	127 ± 1.7 ^P	108 ± 9.2
3333.0	122 ± 3.8 ^S	87 ± 5.2 ^P	105 ± 10.5 ^P	114 ± 1.5 ^P	101 ± 5.6 ^P
6666.0	97 ± 12.2 ^S		120 ± 11.0 ^P		113 ± 3.1 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					751 ± 38.0
Positive Control ³			1133 ± 30.7		
Positive Control ⁴				817 ± 22.4	
Positive Control ⁵	1292 ± 21.7	995 ± 4.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	114 ± 6.5
33.0	107 ± 6.7
100.0	111 ± 6.8
333.0	118 ± 8.8
1000.0	102 ± 3.8 ^P
3333.0	100 ± 2.2 ^P
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1588 ± 27.1
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	39 ± 3.9	19 ± 2.9	22 ± 1.2	10 ± 0.7	23 ± 2.6
33.0		23 ± 3.8		14 ± 1.7	
100.0	41 ± 1.7	16 ± 0.3	19 ± 1.5	8 ± 0.3	21 ± 1.8
333.0	41 ± 2.9	16 ± 3.2	25 ± 6.8	13 ± 3.6	29 ± 3.5
1000.0	29 ± 1.2	14 ± 0.3 ^p	21 ± 2.0	12 ± 3.3 ^p	24 ± 2.0
3333.0	27 ± 2.1 ^s	11 ± 3.9 ^p	16 ± 2.9 ^p	11 ± 2.1 ^p	25 ± 2.1
6666.0	16 ± 5.5 ^s		25 ± 2.6 ^p		12 ± 1.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					55 ± 2.2
Positive Control ³			133 ± 6.2		
Positive Control ⁴				169 ± 4.1	
Positive Control ⁵	982 ± 8.3	724 ± 4.7			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 3.2
33.0	14 ± 3.8
100.0	8 ± 2.6
333.0	8 ± 1.2
1000.0	9 ± 2.3 ^p
3333.0	7 ± 1.5 ^p
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	253 ± 6.4
Positive Control ⁵	

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Date Report Requested: 09/15/2018

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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	105 ± 1.5	55 ± 0.7	135 ± 12.7	174 ± 11.3	115 ± 11.6
33.0		54 ± 3.7		157 ± 11.8	
100.0	106 ± 5.2	50 ± 2.6	120 ± 4.5	180 ± 10.3	124 ± 6.9
333.0	102 ± 6.1	46 ± 1.5	126 ± 6.9	171 ± 10.7	119 ± 4.6
1000.0	88 ± 4.6 ^S	48 ± 0.3 ^P	114 ± 8.5	190 ± 19.9 ^P	113 ± 9.5
3333.0	87 ± 7.0 ^S	45 ± 1.7 ^P	132 ± 5.2 ^P	151 ± 6.0 ^P	118 ± 7.4
6666.0	69 ± 8.7 ^S		153 ± 4.4 ^P		145 ± 6.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					314 ± 3.3
Positive Control ³			493 ± 10.6		
Positive Control ⁴				458 ± 16.4	
Positive Control ⁶	855 ± 72.2	1177 ± 54.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	128 ± 8.3
33.0	132 ± 5.6
100.0	133 ± 5.0
333.0	131 ± 7.9
1000.0	132 ± 7.0 ^P
3333.0	137 ± 8.4 ^P
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	933 ± 69.6
Positive Control ⁶	

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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	24 ± 2.0	13 ± 5.5	49 ± 4.0	32 ± 3.0	43 ± 6.1
33.0		14 ± 1.2		30 ± 2.8	
100.0	30 ± 1.5	16 ± 2.0	50 ± 7.8	29 ± 2.2	39 ± 5.0
333.0	28 ± 2.0	14 ± 3.4	39 ± 3.1	28 ± 4.9	45 ± 1.9
1000.0	20 ± 2.6	13 ± 2.6 ^P	42 ± 2.3	33 ± 4.4 ^P	41 ± 3.0
3333.0	21 ± 1.2 ^P	11 ± 1.8 ^P	48 ± 5.0	39 ± 4.9 ^P	46 ± 4.9 ^P
6666.0	20 ± 4.4 ^P		52 ± 10.2 ^P		56 ± 2.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					842 ± 17.1
Positive Control ³			1267 ± 24.2		
Positive Control ⁴				494 ± 15.7	
Positive Control ⁷	1883 ± 65.5	1132 ± 47.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 2.2
33.0	28 ± 4.3
100.0	24 ± 4.2
333.0	28 ± 1.2
1000.0	30 ± 3.2 ^P
3333.0	31 ± 1.5 ^P
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1484 ± 19.8
Positive Control ⁷	

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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: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****