

Experiment Number: 721735

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

G06: Ames Summary Data

Test Compound: **C.I. Pigment red 23**

CAS Number: **6471-49-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **01:05:50**

NTP Study Number:

721735

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	172 ± 4.7	169 ± 6.7	161 ± 9.4	138 ± 7.2	167 ± 4.9
10.0		133 ± 19.0		156 ± 10.2	
33.0	208 ± 14.2	189 ± 8.0 ^p	195 ± 5.7	162 ± 8.5 ^p	165 ± 7.2
100.0	309 ± 1.0 ^p	171 ± 12.9 ^p	211 ± 4.2 ^p	168 ± 5.5 ^p	167 ± 10.5 ^p
333.0	459 ± 10.4 ^p	250 ± 9.5 ^p	252 ± 5.2 ^p	211 ± 5.2 ^p	201 ± 10.8 ^p
1000.0	615 ± 29.3 ^p	306 ± 18.6 ^p	386 ± 24.6 ^p	215 ± 32.8 ^p	313 ± 4.5 ^p
3333.0	672 ± 26.0 ^p		430 ± 55.5 ^p		403 ± 6.4 ^p
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			764 ± 16.7	682 ± 17.3	1307 ± 20.1
Positive Control ³	421 ± 4.7	365 ± 4.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	163 ± 2.6
10.0	166 ± 7.8
33.0	183 ± 17.7 ^P
100.0	174 ± 3.8 ^P
333.0	196 ± 18.6 ^P
1000.0	223 ± 6.9 ^P
3333.0	
Trial Summary	Weakly Positive
Positive Control ²	1603 ± 66.1
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 6.1	41 ± 1.5	37 ± 3.4
33.0	33 ± 4.5 ^P	37 ± 3.8	22 ± 3.3
100.0	33 ± 5.9 ^P	19 ± 3.2 ^P	18 ± 4.5 ^P
333.0	38 ± 3.8 ^P	12 ± 1.8 ^P	11 ± 1.0 ^P
1000.0	37 ± 2.3 ^P	14 ± 3.5 ^P	20 ± 2.1 ^P
3333.0	43 ± 3.0 ^P	27 ± 1.2 ^P	27 ± 2.2 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ³	394 ± 2.3		
Positive Control ⁴		307 ± 5.5	486 ± 14.9

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.0	8 ± 2.2	9 ± 1.5	6 ± 1.2	8 ± 2.1
10.0		9 ± 1.7		10 ± 2.4	
33.0	28 ± 2.5	34 ± 4.5 ^P	14 ± 2.7	14 ± 1.8 ^P	9 ± 0.0
100.0	40 ± 4.4 ^P	50 ± 8.4 ^P	21 ± 1.5 ^P	16 ± 1.3 ^P	20 ± 2.0 ^P
333.0	113 ± 2.3 ^P	66 ± 5.5 ^P	23 ± 3.3 ^P	14 ± 6.1 ^P	24 ± 2.7 ^P
1000.0	113 ± 17.4 ^P	88 ± 5.8 ^P	50 ± 6.1 ^P	30 ± 0.3 ^P	49 ± 8.3 ^P
3333.0	100 ± 6.7 ^P		62 ± 4.3 ^P		76 ± 1.9 ^P
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁴			304 ± 2.9	161 ± 15.3	424 ± 22.5
Positive Control ⁵	242 ± 23.5	147 ± 18.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.4
10.0	8 ± 0.3
33.0	13 ± 3.4 ^p
100.0	9 ± 2.2 ^p
333.0	14 ± 1.5 ^p
1000.0	27 ± 1.9 ^p
3333.0	
Trial Summary	Equivocal
Positive Control ⁴	574 ± 16.1
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	24 ± 2.8	20 ± 0.7	33 ± 2.0	38 ± 5.7	44 ± 1.3
10.0		25 ± 2.6		41 ± 3.7	
33.0	99 ± 3.8	115 ± 10.9 ^P	54 ± 1.5	43 ± 6.3 ^P	49 ± 1.9
100.0	148 ± 4.4 ^P	167 ± 16.4 ^P	66 ± 4.1 ^P	52 ± 6.1 ^P	68 ± 2.1 ^P
333.0	343 ± 27.9 ^P	283 ± 11.9 ^P	179 ± 9.2 ^P	120 ± 1.5 ^P	149 ± 6.5 ^P
1000.0	396 ± 22.0 ^P	333 ± 7.8 ^P	327 ± 13.7 ^P	70 ± 24.0 ^S	363 ± 13.9 ^P
3333.0	292 ± 18.5 ^P		407 ± 46.2 ^P		336 ± 7.2 ^P
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			571 ± 22.3	502 ± 49.5	1219 ± 34.6
Positive Control ⁶	687 ± 40.0	591 ± 76.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 2.6
10.0	33 ± 6.5
33.0	65 ± 2.7 ^P
100.0	62 ± 4.9 ^P
333.0	115 ± 17.0 ^P
1000.0	180 ± 21.0 ^P
3333.0	
Trial Summary	Positive
Positive Control ²	1171 ± 136.5
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: 95% Ethanol

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****