

Experiment Number: 764380

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

G06: Ames Summary Data

Test Compound: **HC yellow 4**

CAS Number: **59820-43-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **19:56:36**

NTP Study Number:

764380

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	166 ± 7.0	154 ± 12.6	156 ± 12.0	139 ± 4.8	138 ± 10.6
3.0					
10.0					
33.0					
100.0	133 ± 2.8	157 ± 7.0	153 ± 14.7	143 ± 9.0	1180 ± 27.8
333.0	181 ± 7.8	186 ± 33.8 ^p	169 ± 2.3	152 ± 3.3 ^p	1096 ± 136.5
1000.0	307 ± 8.7	257 ± 28.4 ^p	175 ± 6.1	189 ± 3.2 ^p	918 ± 32.7
3333.0	617 ± 38.5	528 ± 37.9 ^p	313 ± 20.6	302 ± 4.2 ^p	583 ± 97.5
10000.0	283 ± 21.7 ^s	324 ± 22.2 ^p	369 ± 25.4	469 ± 94.0 ^p	210 ± 31.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			1703 ± 202.1	764 ± 16.7	1978 ± 31.5
Positive Control ³	482 ± 13.4	421 ± 4.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	147 ± 13.0
3.0	199 ± 11.7
10.0	262 ± 9.4 ^P
33.0	723 ± 10.7 ^P
100.0	1103 ± 7.6 ^P
333.0	1121 ± 145.4 ^P
1000.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control ²	1307 ± 20.1
Positive Control ³	

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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	39 ± 3.4	34 ± 3.5	16 ± 0.9	13 ± 2.6	16 ± 0.6
100.0	33 ± 1.7	26 ± 2.7	10 ± 3.2	12 ± 1.7	20 ± 2.7
333.0	31 ± 1.2	26 ± 0.9 ^P	13 ± 2.1	4 ± 1.3 ^P	19 ± 1.0
1000.0	39 ± 2.4	30 ± 4.4 ^P	14 ± 3.2	4 ± 1.7 ^P	24 ± 4.3
3333.0	64 ± 2.0	46 ± 5.0 ^P	14 ± 4.1	9 ± 1.5 ^P	25 ± 2.2
10000.0	87 ± 11.3	58 ± 16.4 ^P	41 ± 9.7 ^S	23 ± 2.4 ^P	31 ± 4.9
Trial Summary	Positive	Equivocal	Equivocal	Negative	Negative
Positive Control ³	452 ± 25.5	394 ± 2.3			
Positive Control ⁴			528 ± 24.8	307 ± 5.5	606 ± 23.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.1
100.0	15 ± 2.8
333.0	20 ± 3.2 ^p
1000.0	20 ± 3.2 ^p
3333.0	22 ± 5.0 ^p
10000.0	30 ± 6.9 ^p
Trial Summary	Equivocal
Positive Control ³	
Positive Control ⁴	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 ± 0.3	9 ± 1.5	12 ± 3.2	9 ± 1.5	16 ± 2.1
10.0		10 ± 2.0			
33.0		13 ± 2.8 ^P			
100.0	36 ± 2.8	19 ± 0.9 ^P	12 ± 2.7	5 ± 1.2	19 ± 4.4
333.0	82 ± 1.2	79 ± 6.7 ^P	18 ± 4.7	17 ± 4.9 ^P	35 ± 4.2
1000.0	237 ± 9.0	167 ± 10.7 ^P	38 ± 4.2	27 ± 1.5 ^P	66 ± 6.8
3333.0	388 ± 48.7		124 ± 10.9	114 ± 11.7 ^P	236 ± 19.9
10000.0	172 ± 24.0 ^S		283 ± 27.7	239 ± 11.8 ^P	229 ± 27.8 ^S
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁴			308 ± 36.0	304 ± 2.9	367 ± 4.4
Positive Control ⁵	382 ± 35.8	242 ± 23.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6
10.0	
33.0	
100.0	13 ± 2.9
333.0	29 ± 6.7 ^P
1000.0	62 ± 9.2 ^P
3333.0	181 ± 27.0 ^P
10000.0	248 ± 55.5 ^P
Trial Summary	Positive
Positive Control ⁴	424 ± 22.5
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	28 ± 2.2	21 ± 2.3	36 ± 3.2	35 ± 1.3	29 ± 0.7
10.0		25 ± 4.1			
33.0		30 ± 3.5 ^P			
100.0	60 ± 4.7	40 ± 10.9 ^P	30 ± 1.8	37 ± 0.9	96 ± 9.5
333.0	145 ± 4.7	124 ± 10.4 ^P	41 ± 0.7	47 ± 4.7 ^P	111 ± 9.7
1000.0	298 ± 26.7	252 ± 6.9 ^P	65 ± 3.5	84 ± 5.9 ^P	138 ± 12.9
3333.0	556 ± 22.0		192 ± 15.0	142 ± 7.5 ^P	310 ± 49.1
10000.0	473 ± 62.7 ^S		386 ± 64.0	276 ± 35.4 ^S	323 ± 38.5 ^S
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			1080 ± 15.6	571 ± 22.3	1503 ± 69.9
Positive Control ⁶	767 ± 21.9	687 ± 40.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	38 ± 3.5
10.0	38 ± 3.6
33.0	48 ± 7.4 ^P
100.0	75 ± 6.4 ^P
333.0	105 ± 7.1 ^P
1000.0	154 ± 8.5 ^P
3333.0	
10000.0	
Trial Summary	Positive
Positive Control ²	1219 ± 34.6
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: 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 ****