

Experiment Number: 527502

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: HC blue 1

CAS Number: 2784-94-3

Date Report Requested: 09/12/2018

Time Report Requested: 18:33:19

NTP Study Number:

527502

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	83 ± 2.1	122 ± 5.0	85 ± 2.0	122 ± 6.1	82 ± 7.2
100.0	102 ± 3.5	142 ± 3.2	101 ± 5.2	134 ± 10.5	124 ± 2.7
333.0	126 ± 2.8	183 ± 4.3	149 ± 11.7	180 ± 7.4	183 ± 5.2
1000.0	183 ± 9.1	252 ± 9.8	190 ± 22.1	282 ± 11.5	244 ± 13.0
3333.0	298 ± 8.2	416 ± 8.5	208 ± 5.8	327 ± 21.9	274 ± 9.6
5000.0	296 ± 19.8	432 ± 10.4	221 ± 18.8	340 ± 10.2	310 ± 9.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1267 ± 41.5
Positive Control ³			1459 ± 17.8	2304 ± 87.1	
Positive Control ⁴	948 ± 62.9	1174 ± 31.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	93 ± 3.8
100.0	130 ± 5.0
333.0	236 ± 10.0
1000.0	312 ± 9.5
3333.0	324 ± 5.2
5000.0	313 ± 25.7
Trial Summary	Positive
Positive Control ²	1841 ± 118.7
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	16 ± 1.5	10 ± 2.6	11 ± 1.3
100.0	16 ± 0.9	10 ± 0.6	12 ± 2.5
333.0	16 ± 1.8	10 ± 2.0	13 ± 1.5
1000.0	16 ± 3.5	10 ± 0.9	14 ± 3.9 ^s
3333.0	19 ± 2.3 ^s	17 ± 1.0 ^s	16 ± 1.2 ^s
5000.0	21 ± 2.6 ^s	15 ± 1.8 ^s	18 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			160 ± 14.2
Positive Control ³		122 ± 1.5	
Positive Control ⁴	754 ± 16.6		

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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	63 ± 2.4	97 ± 3.7	124 ± 11.9	115 ± 8.4	122 ± 5.5
10.0		107 ± 5.7		131 ± 4.0	
33.0		122 ± 9.8		159 ± 11.3	
100.0	154 ± 6.4	185 ± 1.2	153 ± 5.9	193 ± 3.8	172 ± 2.7
333.0	256 ± 7.6	290 ± 1.2	243 ± 2.9	322 ± 19.9	380 ± 3.2
1000.0	435 ± 9.3	459 ± 15.0	448 ± 2.6	523 ± 21.9	866 ± 19.0
3333.0	3 ± 0.9		103 ± 13.6		618 ± 42.1
5000.0	4 ± 2.3 ^s		168 ± 27.5 ^s		96 ± 11.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1129 ± 68.5
Positive Control ³			1044 ± 39.2	1201 ± 24.2	
Positive Control ⁵	430 ± 11.8	846 ± 36.3			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	131 ± 9.2
10.0	125 ± 5.8
33.0	142 ± 5.6
100.0	215 ± 11.1
333.0	347 ± 15.1
1000.0	872 ± 19.8
3333.0	
5000.0	
Trial Summary	Positive
Positive Control ²	1255 ± 125.1
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 ± 0.6	15 ± 2.6	23 ± 2.4	36 ± 5.7	29 ± 2.9
100.0	73 ± 2.3	63 ± 3.2	73 ± 2.6	80 ± 11.3	139 ± 3.3
333.0	210 ± 7.5	162 ± 15.7	203 ± 9.3	176 ± 13.8	381 ± 2.7
1000.0	450 ± 11.5	328 ± 4.6	517 ± 14.4	448 ± 28.2	890 ± 21.1
3333.0	819 ± 33.8	764 ± 7.0	782 ± 13.3	774 ± 8.7	997 ± 42.8
5000.0	1010 ± 32.7	855 ± 6.3	902 ± 35.9	789 ± 72.8	1094 ± 56.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1223 ± 82.4
Positive Control ³			1240 ± 15.6	1618 ± 28.3	
Positive Control ⁶	1421 ± 34.7	2787 ± 44.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 3.8
100.0	123 ± 2.7
333.0	378 ± 20.4
1000.0	1088 ± 21.8
3333.0	871 ± 37.1
5000.0	863 ± 44.5
Trial Summary	Positive
Positive Control ²	1412 ± 189.0
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

s: Slight Toxicity

** END OF REPORT **