

Experiment Number: 881598

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Vat blue 1

CAS Number: 482-89-3

Date Report Requested: 09/16/2018

Time Report Requested: 19:37:26

NTP Study Number:

881598

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	138 ± 14.6	129 ± 13.9	96 ± 1.5	145 ± 8.0	146 ± 3.7
10.0		135 ± 6.9		139 ± 15.5	142 ± 6.6
33.0	106 ± 7.9	116 ± 4.6	145 ± 8.0	147 ± 4.0	148 ± 4.0
100.0	122 ± 9.7	163 ± 6.3	165 ± 13.1	162 ± 10.2	136 ± 7.2
333.0	126 ± 6.7 ^P	161 ± 14.0 ^P	188 ± 13.3 ^P	181 ± 3.8 ^P	178 ± 15.3 ^P
666.0		143 ± 7.1 ^P		162 ± 3.7 ^P	171 ± 8.2 ^P
1000.0	137 ± 5.5 ^P		140 ± 9.5 ^P		
2000.0	116 ± 2.3 ^P		131 ± 21.0 ^P		
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Negative
Positive Control ²					
Positive Control ³		1311 ± 80.8	719 ± 59.3	820 ± 29.0	395 ± 6.7
Positive Control ⁴	444 ± 11.0				

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	116 ± 15.0
10.0	119 ± 3.2
33.0	120 ± 8.4
100.0	105 ± 3.2
333.0	136 ± 1.7 ^P
666.0	
1000.0	140 ± 8.7 ^P
2000.0	
Trial Summary	Negative
Positive Control ²	875 ± 68.8
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	22 ± 2.0	9 ± 3.3	8 ± 1.2
10.0			9 ± 2.2
33.0	22 ± 2.6	10 ± 0.7	9 ± 1.9
100.0	17 ± 1.2	11 ± 1.0	13 ± 1.5
333.0	21 ± 3.4 ^P	8 ± 2.6 ^P	9 ± 1.5 ^P
1000.0	22 ± 1.2 ^P	9 ± 1.2 ^P	12 ± 0.7 ^P
2000.0	17 ± 4.5 ^P	10 ± 3.2 ^P	
Trial Summary	Negative	Negative	Negative
Positive Control ³			331 ± 11.7
Positive Control ⁴	344 ± 18.5		
Positive Control ⁵		217 ± 1.3	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	113 ± 9.8	174 ± 6.5	170 ± 15.6	88 ± 44.3	177 ± 13.6
10.0		177 ± 5.7		142 ± 6.4	216 ± 17.3
33.0	128 ± 8.3	194 ± 8.7	209 ± 12.7	138 ± 6.0	218 ± 6.3
100.0	116 ± 4.8	196 ± 8.4	219 ± 20.8	165 ± 3.2	207 ± 6.5
333.0	131 ± 3.8 ^P	190 ± 12.1 ^P	251 ± 15.0 ^P	153 ± 8.1 ^P	243 ± 18.4 ^P
666.0		156 ± 6.2 ^P		144 ± 10.5 ^P	221 ± 33.2 ^P
1000.0	85 ± 18.5 ^P		169 ± 6.5 ^P		
2000.0	104 ± 26.3 ^P		171 ± 2.7 ^P		
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²					
Positive Control ³		909 ± 46.8	589 ± 27.5	661 ± 20.7	
Positive Control ⁵					560 ± 23.8
Positive Control ⁶	479 ± 28.3				

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Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	141 ± 6.8	166 ± 4.5	156 ± 15.5	171 ± 6.4	197 ± 7.7
10.0	179 ± 18.0	170 ± 15.7	171 ± 16.5	188 ± 3.5	219 ± 15.7
33.0	180 ± 1.2	187 ± 6.7	183 ± 9.1	213 ± 19.7	230 ± 9.3
100.0	184 ± 10.4	233 ± 16.8	209 ± 13.3	210 ± 8.0	241 ± 18.7
333.0	188 ± 12.7 ^P	238 ± 8.5 ^P	247 ± 3.0 ^P	256 ± 12.7 ^P	295 ± 7.9 ^P
666.0	171 ± 18.9 ^P		204 ± 7.8 ^P	285 ± 2.3 ^P	356 ± 19.7 ^P
1000.0		232 ± 11.2 ^P			
2000.0					
Trial Summary	Equivocal	Equivocal	Weakly Positive	Positive	Positive
Positive Control ²	1271 ± 3.3	628 ± 35.9	1100 ± 58.0		
Positive Control ³				752 ± 19.4	448 ± 18.6
Positive Control ⁵					
Positive Control ⁶					

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Dose (ug/Plate)	Without S9	With 10% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.3	28 ± 5.4	36 ± 2.8	36 ± 2.8	45 ± 3.5
10.0			39 ± 7.2	38 ± 4.1	35 ± 2.1
33.0	17 ± 2.2	36 ± 2.7	36 ± 1.5	35 ± 3.1	34 ± 5.4
100.0	24 ± 1.5	39 ± 6.8	46 ± 3.5	41 ± 4.0	44 ± 1.8
333.0	21 ± 4.0 ^P	38 ± 3.2 ^P	38 ± 6.8 ^P	53 ± 7.6 ^P	56 ± 5.5 ^P
666.0			33 ± 0.6 ^P		45 ± 3.5 ^P
1000.0	23 ± 2.6 ^P	18 ± 0.7 ^P		53 ± 5.6 ^P	
2000.0	21 ± 5.2 ^P	19 ± 2.1 ^P			
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²			1472 ± 93.0	577 ± 51.1	1275 ± 65.8
Positive Control ³		424 ± 11.4			
Positive Control ⁷	746 ± 39.0				

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	30 ± 5.0	34 ± 2.6
10.0	43 ± 5.8	34 ± 3.2
33.0	26 ± 5.5	27 ± 3.5
100.0	44 ± 4.2	35 ± 1.5
333.0	58 ± 5.1 ^P	55 ± 6.9 ^P
666.0	92 ± 3.2 ^P	62 ± 3.5 ^P
1000.0		
2000.0		
Trial Summary	Positive	Positive
Positive Control ²		
Positive Control ³	822 ± 7.0	242 ± 17.2
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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****