

Experiment Number: 955424

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

G06: Ames Summary Data

Test Compound: **Vat blue 4**

CAS Number: **81-77-6**

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

Time Report Requested: **17:24:04**

NTP Study Number:

955424

Study Result:

Negative

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Test Compound: Vat blue 4

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Date Report Requested: 09/17/2018

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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	142 ± 4.2	132 ± 7.0	148 ± 3.5	125 ± 18.6	134 ± 7.6
100.0	124 ± 2.0	116 ± 6.2	134 ± 4.4	149 ± 10.4	115 ± 5.5
333.0	110 ± 11.9	113 ± 5.4	138 ± 5.6	142 ± 3.8	132 ± 7.3
1000.0	129 ± 5.4	125 ± 5.8	130 ± 8.6	107 ± 3.3	126 ± 7.5
3333.0	108 ± 1.2 ^p	109 ± 2.2 ^p	122 ± 9.4 ^p	113 ± 1.0 ^p	122 ± 6.6 ^p
10000.0	108 ± 4.3 ^p	109 ± 2.9 ^p	120 ± 6.8 ^p	96 ± 6.0 ^p	129 ± 1.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					550 ± 5.9
Positive Control ³			389 ± 4.5		
Positive Control ⁴	354 ± 13.7	349 ± 19.5			
Positive Control ⁵				567 ± 21.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	90 ± 5.3	124 ± 6.7
100.0	102 ± 14.1	127 ± 2.2
333.0	104 ± 3.4	138 ± 5.7
1000.0	133 ± 9.2	120 ± 15.4
3333.0	128 ± 4.0 ^P	122 ± 6.2 ^P
10000.0	112 ± 4.7 ^P	121 ± 7.5 ^P
Trial Summary	Equivocal	Negative
Positive Control ²		
Positive Control ³	564 ± 47.5	457 ± 12.7
Positive Control ⁴		
Positive Control ⁵		

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CAS Number: 81-77-6

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.7	20 ± 1.5	14 ± 2.4	14 ± 2.0	9 ± 3.1
100.0	17 ± 1.5	17 ± 0.9	10 ± 1.2	13 ± 2.6	8 ± 0.3
333.0	12 ± 2.8	11 ± 0.9	12 ± 2.0	14 ± 2.9	11 ± 1.8
1000.0	12 ± 1.2	12 ± 2.7	12 ± 2.0	12 ± 2.0	11 ± 2.8
3333.0	16 ± 1.5 ^p	12 ± 2.3 ^p	9 ± 1.5 ^p	12 ± 2.9 ^p	9 ± 0.7 ^p
10000.0	14 ± 3.2 ^p	12 ± 0.9 ^p	10 ± 2.0 ^p	9 ± 0.6 ^p	14 ± 3.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					235 ± 0.9
Positive Control ⁴	371 ± 6.3	419 ± 20.1			
Positive Control ⁵			139 ± 10.6		
Positive Control ⁶				135 ± 5.3	

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Test Compound: Vat blue 4
CAS Number: 81-77-6

Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.6
100.0	14 ± 1.2
333.0	11 ± 2.6
1000.0	11 ± 2.0
3333.0	10 ± 1.2 ^p
10000.0	15 ± 1.5 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	448 ± 63.4
Positive Control ⁶	

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G06: Ames Summary Data

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Mutagenicity**Test Compound: **Vat blue 4**

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CAS Number: 81-77-6

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	149 ± 9.0	171 ± 4.8	181 ± 4.0	201 ± 9.7	163 ± 1.5
100.0	144 ± 5.5	180 ± 16.5	181 ± 3.7	204 ± 9.1	161 ± 5.2
333.0	165 ± 8.1	164 ± 5.9	149 ± 3.8	198 ± 9.8	189 ± 9.6
1000.0	162 ± 3.9	194 ± 5.5	175 ± 15.2	225 ± 7.1	193 ± 3.2
3333.0	138 ± 0.9 ^p	139 ± 3.5 ^p	139 ± 4.7 ^p	221 ± 6.4 ^p	176 ± 10.3 ^p
10000.0	135 ± 3.8 ^p	133 ± 14.3 ^p	146 ± 7.3 ^p	200 ± 2.0 ^p	156 ± 23.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					366 ± 18.9
Positive Control ³			311 ± 7.3		
Positive Control ⁵				378 ± 25.7	
Positive Control ⁷	442 ± 35.9	578 ± 48.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	166 ± 9.0
100.0	177 ± 11.0
333.0	176 ± 12.3
1000.0	187 ± 7.6
3333.0	161 ± 17.0 ^P
10000.0	160 ± 15.2 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	478 ± 26.8
Positive Control ⁵	
Positive Control ⁷	

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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	21 ± 1.5	17 ± 0.9	26 ± 5.5	24 ± 1.5	30 ± 3.5
100.0	17 ± 1.0	14 ± 1.5	21 ± 1.2	23 ± 1.0	30 ± 5.0
333.0	13 ± 1.5	16 ± 2.2	18 ± 1.5	29 ± 1.3	28 ± 1.5
1000.0	18 ± 1.3	12 ± 0.3	26 ± 2.6	21 ± 2.1	32 ± 3.7
3333.0	12 ± 0.9 ^P	11 ± 0.7 ^P	24 ± 2.8 ^P	25 ± 3.4 ^P	29 ± 3.2 ^P
10000.0	7 ± 0.7 ^P	10 ± 1.2 ^P	28 ± 2.1 ^P	26 ± 3.2 ^P	38 ± 5.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					595 ± 19.4
Positive Control ³			365 ± 13.8	164 ± 3.7	
Positive Control ⁸	507 ± 31.8	645 ± 12.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 2.0
100.0	25 ± 0.7
333.0	20 ± 4.1
1000.0	19 ± 5.6
3333.0	22 ± 5.4 ^p
10000.0	26 ± 3.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	514 ± 18.2
Positive Control ⁸	

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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: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

** END OF REPORT **