

Experiment Number: 298321

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: **09/11/2018**

Time Report Requested: **21:47:47**

NTP Study Number:

298321

Study Result:

Equivocal

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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	90 ± 6.0	96 ± 2.8	105 ± 11.6	110 ± 7.3	111 ± 9.8
100.0	128 ± 0.6	124 ± 7.7	137 ± 1.5	90 ± 7.6	147 ± 6.1
333.0	123 ± 7.3	130 ± 2.3	151 ± 11.2	119 ± 4.6	191 ± 2.0
1000.0	162 ± 15.0	117 ± 9.2	175 ± 8.8	119 ± 15.1	157 ± 2.8
3333.0	153 ± 9.2	131 ± 9.3	150 ± 12.6	133 ± 13.7	165 ± 0.0
10000.0	95 ± 9.6	137 ± 5.0	132 ± 2.0	5 ± 2.9	149 ± 5.0
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Equivocal
Positive Control ²	377 ± 7.5	348 ± 10.4			
Positive Control ³			399 ± 24.4	464 ± 5.2	1379 ± 19.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	120 ± 7.0
100.0	100 ± 13.2
333.0	125 ± 1.7
1000.0	134 ± 11.4
3333.0	149 ± 13.8
10000.0	67 ± 28.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1067 ± 33.1

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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	28 ± 5.4	23 ± 4.0	7 ± 0.3	9 ± 1.5	9 ± 3.3
100.0	25 ± 3.8	12 ± 2.4	8 ± 1.9	26 ± 1.3	8 ± 2.1
333.0	25 ± 2.9	9 ± 2.4	11 ± 2.7	23 ± 4.8	12 ± 0.3
1000.0	24 ± 2.2	11 ± 2.3	8 ± 1.0	25 ± 2.6	15 ± 0.9
3333.0	22 ± 2.9	13 ± 1.2	9 ± 0.6	17 ± 1.2	8 ± 1.9
10000.0	14 ± 6.4	11 ± 2.1	7 ± 1.7	4 ± 0.7	7 ± 2.3
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²	440 ± 6.9	366 ± 31.1			
Positive Control ⁴			162 ± 6.1	257 ± 29.8	482 ± 29.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3
100.0	8 ± 0.7
333.0	9 ± 0.0
1000.0	10 ± 2.3
3333.0	12 ± 2.1
10000.0	2 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	452 ± 6.0

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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	6 ± 1.2	3 ± 0.7	8 ± 1.2	6 ± 1.5	8 ± 0.9
100.0	10 ± 1.5	10 ± 4.2	10 ± 1.5	6 ± 1.7	11 ± 1.5
333.0	9 ± 0.6	15 ± 0.3	8 ± 1.7	8 ± 1.8	11 ± 0.9
1000.0	13 ± 1.5	11 ± 3.3	10 ± 0.9	14 ± 2.2	9 ± 1.0
3333.0	16 ± 0.7	17 ± 2.4	9 ± 1.5	13 ± 0.6	9 ± 2.2
10000.0	12 ± 3.5	20 ± 3.6	8 ± 1.7	5 ± 1.2	9 ± 2.4
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴			163 ± 25.6	160 ± 22.2	457 ± 9.5
Positive Control ⁵	317 ± 31.7	241 ± 23.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.0
100.0	11 ± 2.1
333.0	13 ± 1.0
1000.0	11 ± 1.9
3333.0	11 ± 1.8
10000.0	12 ± 2.6
Trial Summary	Negative
Positive Control ⁴	422 ± 28.3
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	16 ± 1.2	14 ± 1.2	24 ± 1.0	22 ± 2.0	27 ± 4.6
100.0	15 ± 1.8	28 ± 1.7	34 ± 4.4	14 ± 2.9	40 ± 1.7
333.0	21 ± 3.8	36 ± 4.6	35 ± 1.3	19 ± 2.4	37 ± 4.4
1000.0	20 ± 1.3	18 ± 5.8	28 ± 2.5	23 ± 2.9	26 ± 4.2
3333.0	21 ± 2.3	35 ± 5.0	26 ± 1.8	21 ± 1.3	18 ± 2.4
10000.0	14 ± 3.0	13 ± 4.8	14 ± 2.2	12 ± 1.5	21 ± 3.8
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ³			285 ± 17.7	411 ± 13.7	1128 ± 60.2
Positive Control ⁶	388 ± 21.7	480 ± 38.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.0
100.0	38 ± 6.7
333.0	40 ± 3.5
1000.0	41 ± 5.0
3333.0	33 ± 9.0
10000.0	16 ± 8.1
Trial Summary	Negative
Positive Control ³	1012 ± 54.6
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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****