

Experiment Number: 350442

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

G06: Ames Summary Data

Test Compound: **C.I. Vat yellow 4**

CAS Number: 128-66-5

Date Report Requested: **09/13/2018**

Time Report Requested: **15:31:25**

NTP Study Number:

350442

Study Result:

Negative

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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	161 ± 9.0	115 ± 12.3	115 ± 1.0	131 ± 4.3	127 ± 5.7
100.0	133 ± 15.4	154 ± 2.4	118 ± 8.4	150 ± 1.9	136 ± 6.7
333.0	137 ± 13.1	155 ± 3.8	118 ± 1.9	150 ± 6.8	125 ± 5.2
1000.0	151 ± 7.9	142 ± 10.3	122 ± 6.8	153 ± 11.9	136 ± 5.5
3333.0	143 ± 2.6	130 ± 8.6	129 ± 8.3	135 ± 3.8	127 ± 10.2
10000.0	130 ± 9.3	110 ± 7.2	104 ± 4.7	139 ± 7.0	128 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	574 ± 22.0	401 ± 11.5			
Positive Control ³			1075 ± 15.5	826 ± 9.8	2319 ± 65.3

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	129 ± 15.8
100.0	156 ± 10.5
333.0	142 ± 9.2
1000.0	133 ± 13.1
3333.0	125 ± 1.3
10000.0	138 ± 6.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1675 ± 91.8

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Mutagenicity**G06: Ames Summary Data**

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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	38 ± 7.4	24 ± 3.0	14 ± 0.3	15 ± 2.2	6 ± 1.2
100.0	36 ± 3.9	23 ± 3.8	15 ± 4.1	10 ± 1.9	14 ± 2.3
333.0	35 ± 5.8	25 ± 2.7	15 ± 0.6	13 ± 2.0	12 ± 1.9
1000.0	34 ± 2.2	30 ± 6.1	19 ± 1.0	10 ± 1.9	16 ± 2.1
3333.0	36 ± 5.0	32 ± 3.5	16 ± 1.7	17 ± 0.7	13 ± 2.3
10000.0	32 ± 1.5	20 ± 2.0	15 ± 2.3	16 ± 0.9	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	490 ± 20.3	359 ± 18.6			
Positive Control ⁴			385 ± 25.4	215 ± 8.9	626 ± 34.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7
100.0	11 ± 3.9
333.0	8 ± 0.6
1000.0	10 ± 1.9
3333.0	8 ± 2.5
10000.0	10 ± 1.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	348 ± 22.4

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Mutagenicity**G06: Ames Summary Data**

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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	10 ± 2.5	8 ± 2.2	15 ± 1.2	8 ± 2.5	10 ± 1.0
100.0	8 ± 3.6	8 ± 2.2	15 ± 4.8	15 ± 3.1	11 ± 3.0
333.0	6 ± 1.7	5 ± 1.5	20 ± 3.8	10 ± 2.9	14 ± 3.5
1000.0	8 ± 2.3	8 ± 1.0	19 ± 3.5	13 ± 3.8	15 ± 3.9
3333.0	8 ± 1.0	6 ± 1.3	15 ± 2.0	11 ± 2.5	9 ± 3.5
10000.0	9 ± 1.5	6 ± 0.6	11 ± 2.2	14 ± 0.9	6 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			317 ± 29.5	196 ± 7.9	331 ± 7.4
Positive Control ⁵	357 ± 61.6	253 ± 19.9			

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Date Report Requested: 09/13/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 4.4
100.0	5 ± 1.2
333.0	13 ± 1.3
1000.0	7 ± 2.4
3333.0	6 ± 0.9
10000.0	8 ± 0.7
Trial Summary	Negative
Positive Control ⁴	528 ± 17.0
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 ± 1.5	15 ± 3.5	32 ± 5.4	30 ± 0.3	34 ± 2.5
100.0	25 ± 2.8	14 ± 3.2	32 ± 5.2	27 ± 3.0	36 ± 11.4
333.0	22 ± 3.5	21 ± 2.6	27 ± 0.9	40 ± 5.7	39 ± 6.4
1000.0	24 ± 2.4	17 ± 2.6	32 ± 5.2	26 ± 3.3	38 ± 1.7
3333.0	24 ± 1.5	21 ± 3.7	27 ± 5.2	19 ± 5.3	29 ± 3.8
10000.0	24 ± 4.5	18 ± 2.7	22 ± 1.9	22 ± 3.8	23 ± 6.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			918 ± 18.0	560 ± 32.1	2462 ± 94.3
Positive Control ⁶	913 ± 40.5	799 ± 20.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 3.5
100.0	28 ± 1.7
333.0	32 ± 4.4
1000.0	37 ± 4.7
3333.0	19 ± 3.2
10000.0	28 ± 0.3
Trial Summary	Negative
Positive Control ³	1326 ± 23.1
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: Water

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 ****