

Experiment Number: 192280

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

G06: Ames Summary Data

Test Compound: **Vanillin**

CAS Number: 121-33-5

Date Report Requested: **09/14/2018**

Time Report Requested: **01:59:38**

NTP Study Number:

192280

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	131 ± 1.5	184 ± 10.3	142 ± 6.7	150 ± 2.9	249 ± 17.1
100.0	106 ± 8.4	159 ± 3.4	137 ± 3.3	135 ± 3.7	207 ± 5.7
333.0	106 ± 5.9	177 ± 8.4	127 ± 4.2	129 ± 6.5	213 ± 13.3
1000.0	103 ± 10.0	150 ± 2.6	124 ± 9.2	115 ± 5.8	191 ± 7.7
3333.0	85 ± 2.4	97 ± 34.4	102 ± 9.8	92 ± 5.4	177 ± 2.7
10000.0	20 ± 5.0 ^s	54 ± 31.1 ^s	18 ± 3.5 ^s	24 ± 2.4 ^s	87 ± 8.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				781 ± 5.4	1289 ± 24.3
Positive Control ⁴	1080 ± 29.6	1054 ± 27.8	1399 ± 21.3		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 6.2	159 ± 9.5	251 ± 14.2	104 ± 0.6
100.0	102 ± 5.4	136 ± 1.2	255 ± 11.0	125 ± 9.8
333.0	119 ± 6.3	142 ± 11.3	256 ± 8.6	120 ± 2.7
1000.0	98 ± 3.4	105 ± 5.9	217 ± 12.2	114 ± 8.2
3333.0	97 ± 3.2	94 ± 6.6	189 ± 11.1	98 ± 10.7
10000.0	46 ± 1.2 ^s	55 ± 8.7 ^s	58 ± 19.6 ^s	38 ± 2.7 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		1065 ± 64.3	1386 ± 23.7	706 ± 10.5
Positive Control ³	901 ± 20.2			
Positive Control ⁴				

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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	18 ± 1.5	26 ± 2.3	9 ± 1.3	25 ± 4.1	8 ± 1.7
100.0	12 ± 1.5	29 ± 2.4	9 ± 1.2	24 ± 2.7	7 ± 2.8
333.0	10 ± 1.2	26 ± 1.7	7 ± 1.2	28 ± 2.1	8 ± 2.3
1000.0	12 ± 2.5	22 ± 3.5	5 ± 0.7	28 ± 4.3	9 ± 0.9
3333.0	6 ± 0.7	21 ± 1.7	5 ± 1.7	30 ± 5.7	11 ± 2.3
10000.0	1 ± 0.6 ^s	1 ± 0.3 ^s	1 ± 0.0 ^s	3 ± 0.7 ^s	3 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					77 ± 2.3
Positive Control ³			64 ± 3.1	100 ± 9.8	
Positive Control ⁴	718 ± 42.2	753 ± 20.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.8
100.0	25 ± 2.4
333.0	23 ± 2.2
1000.0	23 ± 3.5
3333.0	21 ± 2.4
10000.0	4 ± 1.8 ^s
Trial Summary	Negative
Positive Control ²	90 ± 4.0
Positive Control ³	
Positive Control ⁴	

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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	7 ± 3.0	6 ± 1.5	7 ± 2.3	8 ± 2.0	6 ± 1.3
100.0	5 ± 1.5	8 ± 1.2	5 ± 1.2	5 ± 1.9	4 ± 0.7
333.0	4 ± 0.3	7 ± 0.3	6 ± 1.2	7 ± 2.0	8 ± 0.6
1000.0	5 ± 1.5	6 ± 1.5	6 ± 1.2	9 ± 0.6	5 ± 1.3
3333.0	2 ± 1.5	6 ± 3.5	4 ± 0.9	9 ± 2.1	5 ± 1.9
10000.0	Toxic	0 ± 0.3 ^s	2 ± 1.2 ^s	3 ± 2.2 ^s	2 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					99 ± 5.8
Positive Control ³			75 ± 5.2	88 ± 7.2	
Positive Control ⁵	476 ± 49.2	670 ± 65.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
100.0	7 ± 1.5
333.0	11 ± 0.9
1000.0	8 ± 2.3
3333.0	4 ± 0.9
10000.0	4 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	131 ± 7.9
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	18 ± 0.6	17 ± 5.5	23 ± 1.7	21 ± 2.1	29 ± 4.7
100.0	18 ± 4.0	15 ± 2.3	21 ± 2.6	27 ± 4.7	27 ± 0.7
333.0	17 ± 1.5	15 ± 1.5	24 ± 1.5	22 ± 3.5	26 ± 2.7
1000.0	15 ± 1.7	11 ± 1.7	19 ± 1.9	21 ± 6.7	19 ± 1.8
3333.0	9 ± 2.0	12 ± 1.9	16 ± 1.7	16 ± 2.5	15 ± 3.4
10000.0	Toxic	5 ± 1.5 ^s	5 ± 0.6 ^s	7 ± 2.7 ^s	4 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					814 ± 30.9
Positive Control ³			455 ± 17.1	856 ± 38.2	
Positive Control ⁶	1385 ± 21.6	1485 ± 5.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 4.3
100.0	32 ± 3.0
333.0	29 ± 1.0
1000.0	25 ± 2.1
3333.0	17 ± 0.9
10000.0	3 ± 2.1 ^s
Trial Summary	Negative
Positive Control ²	1024 ± 30.1
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: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****