

Experiment Number: 330481

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

G06: Ames Summary Data

Test Compound: **2,5-Xylidine**

CAS Number: **95-78-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:45:09**

NTP Study Number:

330481

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	152 ± 13.9	142 ± 7.4	143 ± 15.5	165 ± 12.2	173 ± 2.4
33.0	137 ± 18.8	190 ± 22.2	194 ± 3.8	195 ± 12.1	271 ± 21.4
100.0	133 ± 2.9	182 ± 5.9	213 ± 2.9	219 ± 15.2	301 ± 4.1
333.0	116 ± 6.4	204 ± 16.9	254 ± 3.4	276 ± 19.7	409 ± 14.1
1000.0	139 ± 10.8	263 ± 3.8	265 ± 13.7	355 ± 11.6	451 ± 9.0
1666.0	23 ± 5.0 ^s	261 ± 12.5	235 ± 13.2	400 ± 17.1	446 ± 17.0
Trial Summary	Negative	Positive	Weakly Positive	Positive	Positive
Positive Control ²				1116 ± 27.4	1007 ± 31.3
Positive Control ³		872 ± 36.8	953 ± 15.3		
Positive Control ⁴	500 ± 4.1				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	34 ± 3.3	13 ± 1.5	12 ± 1.2
33.0	35 ± 1.9	14 ± 0.9	11 ± 1.3
100.0	36 ± 4.9	10 ± 1.5	10 ± 1.9
333.0	30 ± 0.3	12 ± 2.0	15 ± 0.3
1000.0	36 ± 2.6	9 ± 0.9	13 ± 0.3
1666.0	2 ± 0.6 ^s	12 ± 2.1	10 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ³			269 ± 9.5
Positive Control ⁴	468 ± 11.5		
Positive Control ⁵		245 ± 15.9	

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 0.3	5 ± 1.7
33.0	9 ± 0.9	9 ± 2.8
100.0	12 ± 1.7	11 ± 1.5
333.0	13 ± 1.5	19 ± 3.3
1000.0	17 ± 0.9	25 ± 0.7
1666.0	14 ± 0.7	43 ± 4.6
Trial Summary	Negative	Positive
Positive Control ⁵	153 ± 5.0	322 ± 21.1

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 9.3	181 ± 5.0	183 ± 16.9	188 ± 0.6	196 ± 3.5
33.0	181 ± 4.4	189 ± 9.8	178 ± 2.5	217 ± 2.5	214 ± 17.8
100.0	187 ± 5.9	178 ± 17.6	179 ± 12.5	234 ± 12.8	213 ± 3.5
333.0	179 ± 4.7	196 ± 17.6	158 ± 6.1	258 ± 8.1	264 ± 6.0
1000.0	157 ± 13.1	236 ± 6.6	187 ± 16.2	336 ± 4.4	272 ± 17.7
1666.0	81 ± 12.3 ^s	140 ± 10.5 ^s	82 ± 21.2 ^s	388 ± 11.9	290 ± 21.0
Trial Summary	Equivocal	Equivocal	Negative	Positive	Weakly Positive
Positive Control ²				718 ± 6.9	777 ± 23.3
Positive Control ³		585 ± 25.1	638 ± 5.9		
Positive Control ⁶	652 ± 9.1				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.2	26 ± 1.2	40 ± 0.0	34 ± 2.0	42 ± 3.5
33.0	28 ± 4.2	43 ± 6.3	36 ± 4.1	50 ± 4.4	46 ± 2.8
100.0	31 ± 2.8	47 ± 5.2	46 ± 2.7	46 ± 4.3	59 ± 3.0
333.0	25 ± 3.1	57 ± 1.9	67 ± 3.2	77 ± 2.2	105 ± 4.1
1000.0	24 ± 5.3	81 ± 15.8	97 ± 15.0	173 ± 21.1	187 ± 8.2
1666.0	5 ± 1.3 ^s	81 ± 14.8	92 ± 8.1	173 ± 21.8	292 ± 4.5
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				825 ± 28.0	549 ± 23.5
Positive Control ³		692 ± 34.3	403 ± 37.4		
Positive Control ⁷	814 ± 36.0				

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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

s: Slight Toxicity

**** END OF REPORT ****