

Experiment Number: 330987

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

G06: Ames Summary Data

Test Compound: **2,4-Xylidine**

CAS Number: **95-68-1**

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

Time Report Requested: **16:48:48**

NTP Study Number:

330987

Study Result:

Positive

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G06: Ames Summary Data

Date Report Requested: 09/12/2018

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

Test Compound: 2,4-Xylidine

Time Report Requested: 16:48:48

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	110 ± 3.2	122 ± 8.7	163 ± 1.5	111 ± 1.5	173 ± 2.4
10.0			232 ± 7.5		328 ± 10.1
33.0	136 ± 11.5	188 ± 21.1	327 ± 26.4	238 ± 26.3	436 ± 17.9
100.0	126 ± 6.1	219 ± 4.3	400 ± 8.9	294 ± 19.1	576 ± 29.1
333.0	144 ± 4.5	225 ± 12.7	463 ± 10.7	363 ± 22.8	773 ± 17.4
1000.0	90 ± 2.5	270 ± 38.5	548 ± 14.0	437 ± 39.2	995 ± 51.1
1666.0	Toxic				
3333.0		Toxic		384 ± 36.5	
Trial Summary	Negative	Positive	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	25 ± 3.8	13 ± 1.5	11 ± 1.5
33.0	21 ± 1.9	12 ± 1.5	9 ± 3.2
100.0	28 ± 1.2	12 ± 2.3	12 ± 0.0
333.0	30 ± 3.9	13 ± 0.6	12 ± 0.9
1000.0	26 ± 2.1	13 ± 1.2	12 ± 1.5
1666.0	Toxic		
3333.0		Toxic	7 ± 0.0
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	13 ± 2.6	12 ± 2.4
10.0	14 ± 3.5	11 ± 0.9
33.0	14 ± 2.1	11 ± 2.2
100.0	8 ± 2.0	16 ± 0.9
333.0	10 ± 0.9	13 ± 1.9
1000.0	10 ± 2.0	11 ± 1.2
Trial Summary	Negative	Negative
Positive Control ⁵	153 ± 5.0	322 ± 21.1

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Test Compound: 2,4-Xylidine

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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	144 ± 10.3	175 ± 6.2	183 ± 16.9	144 ± 10.4	196 ± 3.5
10.0			225 ± 6.4		253 ± 9.0
33.0	152 ± 7.2	208 ± 12.3	276 ± 5.2	196 ± 3.0	304 ± 10.5
100.0	149 ± 6.9	216 ± 9.5	269 ± 20.8	208 ± 8.4	347 ± 16.8
333.0	141 ± 16.4	247 ± 8.2	286 ± 10.7	250 ± 6.1	403 ± 6.2
1000.0	53 ± 3.9 ^s	216 ± 8.2	247 ± 4.0	270 ± 2.6	419 ± 23.5
1666.0	Toxic				
3333.0		Toxic		200 ± 35.8	
Trial Summary	Negative	Equivocal	Weakly Positive	Positive	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 ± 0.9	40 ± 4.6	46 ± 2.7	37 ± 3.2	42 ± 3.5
10.0			44 ± 3.2		55 ± 4.1
33.0	28 ± 2.2	45 ± 2.4	63 ± 1.0	43 ± 9.8	56 ± 2.1
100.0	28 ± 4.6	50 ± 3.0	68 ± 3.1	45 ± 2.8	57 ± 0.6
333.0	24 ± 3.5	49 ± 3.1	76 ± 7.5	66 ± 9.3	111 ± 3.2
1000.0	18 ± 1.2	71 ± 3.7	107 ± 3.8	100 ± 18.1	181 ± 4.4
1666.0	Toxic				
3333.0		Toxic		207 ± 8.2	
Trial Summary	Negative	Equivocal	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 ****