

Experiment Number: 635473

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

G06: Ames Summary Data

Test Compound: **m-Xylene**

CAS Number: **108-38-3**

Date Report Requested: **09/10/2018**

Time Report Requested: **22:58:26**

NTP Study Number:

635473

Study Result:

Negative

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Date Report Requested: 09/10/2018

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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	125 ± 4.5	144 ± 16.2	109 ± 7.1	136 ± 4.8	123 ± 10.8
0.3		125 ± 4.7		119 ± 8.6	
1.0		120 ± 12.0		122 ± 12.3	
3.3	113 ± 4.9	141 ± 10.5	104 ± 2.7	144 ± 7.6	86 ± 3.5
10.0	125 ± 4.8	127 ± 13.3	121 ± 9.4	126 ± 2.9	92 ± 4.6
33.0	72 ± 0.5 ^s	126 ± 9.2	94 ± 16.9 ^s	118 ± 8.4	106 ± 6.7 ^s
100.0	85 ± 4.0 ^s		90 ± 4.0 ^s		64 ± 0.5 ^s
200.0	Toxic				
333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1356 ± 92.6
Positive Control ³			944 ± 32.4	1227 ± 131.3	
Positive Control ⁴	1353 ± 45.1	1604 ± 24.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	130 ± 3.2
0.3	121 ± 6.5
1.0	108 ± 13.2
3.3	128 ± 12.0
10.0	114 ± 9.1
33.0	106 ± 8.4
100.0	
200.0	
333.0	
Trial Summary	Negative
Positive Control ²	1276 ± 30.3
Positive Control ³	
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 ± 3.8	21 ± 4.4	9 ± 2.3	15 ± 1.7	8 ± 1.5
0.3		22 ± 3.1		10 ± 3.5	
1.0		17 ± 3.5		10 ± 1.5	
3.3	17 ± 2.1	22 ± 2.2	10 ± 1.8	14 ± 1.5	8 ± 1.5
10.0	14 ± 3.1	21 ± 1.3	10 ± 1.0	10 ± 2.1	6 ± 2.6
33.0	14 ± 1.5 ^s	18 ± 2.4	9 ± 0.6 ^s	13 ± 1.7	11 ± 0.9 ^s
100.0	Toxic		Toxic		5 ± 2.0 ^s
200.0	12 ± 1.0 ^s				
333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					133 ± 2.5
Positive Control ³			73 ± 4.5	66 ± 7.3	
Positive Control ⁴	1008 ± 19.3	1251 ± 43.1			

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Date Report Requested: 09/10/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9
0.3	8 ± 0.9
1.0	11 ± 0.0
3.3	12 ± 1.2
10.0	11 ± 0.9
33.0	11 ± 3.2
100.0	
200.0	
333.0	
Trial Summary	Negative
Positive Control ²	167 ± 13.0
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	10 ± 0.3	6 ± 1.0	8 ± 1.7	11 ± 3.8	5 ± 1.5
0.3		7 ± 1.8		7 ± 1.2	
1.0		7 ± 0.7		8 ± 2.3	
3.3	6 ± 0.7	6 ± 0.9	8 ± 1.5	9 ± 1.0	7 ± 0.6
10.0	6 ± 2.3	5 ± 1.2	8 ± 1.8	11 ± 3.5	10 ± 1.0
33.0	5 ± 0.3 ^s	8 ± 0.6	8 ± 1.7	7 ± 1.2	5 ± 0.9 ^s
100.0	2 ± 0.3 ^s		7 ± 0.7 ^s		5 ± 1.9 ^s
200.0	Toxic				
333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					139 ± 7.1
Positive Control ³			63 ± 7.2	68 ± 6.8	
Positive Control ⁵	363 ± 95.1	461 ± 60.8			

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Date Report Requested: 09/10/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
0.3	6 ± 0.6
1.0	7 ± 0.6
3.3	6 ± 0.7
10.0	8 ± 1.5
33.0	7 ± 1.5
100.0	
200.0	
333.0	
Trial Summary	Negative
Positive Control ²	119 ± 14.2
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	19 ± 3.2	18 ± 3.8	21 ± 1.3	25 ± 3.5	26 ± 3.9
0.3		22 ± 3.8		27 ± 0.3	
1.0		14 ± 2.0		22 ± 2.3	
3.3	24 ± 3.5	19 ± 0.3	23 ± 5.2	26 ± 3.4	30 ± 4.5
10.0	22 ± 1.2	17 ± 2.1	23 ± 1.5	21 ± 1.2	21 ± 1.9
33.0	13 ± 1.2 ^s	15 ± 1.3	17 ± 2.0 ^s	24 ± 2.0	25 ± 4.0 ^s
100.0	Toxic		14 ± 0.6 ^s		22 ± 3.3 ^s
200.0	Toxic				
333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1641 ± 60.7
Positive Control ³			1027 ± 16.1	1010 ± 35.4	
Positive Control ⁶	2052 ± 112.7	1521 ± 51.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.8
0.3	22 ± 2.4
1.0	21 ± 0.6
3.3	27 ± 5.6
10.0	23 ± 3.8
33.0	30 ± 0.3
100.0	
200.0	
333.0	
Trial Summary	Negative
Positive Control ²	1103 ± 116.2
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 ****