

Experiment Number: 617471

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

G06: Ames Summary Data

Test Compound: **p-Xylene**

CAS Number: **106-42-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **07:32:40**

NTP Study Number:

617471

Study Result:

Negative

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Date Report Requested: 09/15/2018

Time Report Requested: 07:32:40

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	128 ± 5.0	97 ± 2.8	107 ± 5.8	110 ± 15.6	110 ± 6.1
1.0		122 ± 4.0			
3.3	123 ± 0.0	101 ± 7.9	126 ± 0.7	112 ± 11.5	80 ± 3.9
10.0	128 ± 5.0	104 ± 10.6	117 ± 4.5	116 ± 7.5	121 ± 3.2
33.0	109 ± 10.6	102 ± 9.5	99 ± 5.6	110 ± 5.7	112 ± 8.4
100.0	137 ± 2.1 ^s	88 ± 5.2 ^s	122 ± 4.4	102 ± 3.5	108 ± 6.7
200.0	126 ± 16.6 ^s			67 ± 2.6 ^s	
333.0			82 ± 11.2 ^s		108 ± 5.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1982 ± 23.6
Positive Control ³			1041 ± 40.3	1190 ± 46.1	
Positive Control ⁴	1491 ± 16.5	2194 ± 27.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	85 ± 5.7
1.0	
3.3	80 ± 2.2
10.0	86 ± 3.2
33.0	86 ± 3.5
100.0	77 ± 8.4
200.0	73 ± 6.4 ^s
333.0	
Trial Summary	Negative
Positive Control ²	1422 ± 34.9
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 ± 1.0	18 ± 2.8	7 ± 0.6	10 ± 2.2	10 ± 0.7
1.0		18 ± 1.5			
3.3	16 ± 1.5	21 ± 2.5	10 ± 2.3	9 ± 0.7	10 ± 0.9
10.0	23 ± 4.0	22 ± 3.0	10 ± 1.7	12 ± 1.7	12 ± 0.9
33.0	20 ± 1.8	25 ± 4.3	8 ± 0.9	7 ± 1.5	9 ± 2.8
100.0	21 ± 0.9	17 ± 5.7	8 ± 1.2	11 ± 2.8	9 ± 1.0
200.0	13 ± 2.1 ^s			7 ± 1.2 ^s	
333.0			7 ± 1.0 ^s		7 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					137 ± 1.8
Positive Control ³			45 ± 2.0	63 ± 3.8	
Positive Control ⁴	1103 ± 21.8	1569 ± 6.7			

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Date Report Requested: 09/15/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.2
1.0	
3.3	9 ± 2.0
10.0	10 ± 2.1
33.0	12 ± 1.8
100.0	12 ± 2.1
200.0	9 ± 2.6 ^s
333.0	
Trial Summary	Negative
Positive Control ²	128 ± 12.2
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	9 ± 1.8	5 ± 0.9	7 ± 0.9	9 ± 1.9	8 ± 2.7
1.0		6 ± 0.6			
3.3	9 ± 0.9	7 ± 0.9	9 ± 1.8	4 ± 0.9	7 ± 3.5
10.0	8 ± 1.5	6 ± 2.0	7 ± 1.7	7 ± 2.3	6 ± 1.7
33.0	8 ± 1.5	7 ± 0.6	10 ± 2.4	8 ± 2.0	8 ± 1.2
100.0	6 ± 2.0 ^s	7 ± 2.0	9 ± 1.7	6 ± 0.7	8 ± 0.9
200.0	7 ± 0.5 ^s			3 ± 0.9 ^s	
333.0			5 ± 0.7 ^s		7 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					140 ± 7.9
Positive Control ³			74 ± 6.3	122 ± 8.6	
Positive Control ⁵	656 ± 68.9	473 ± 39.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.9
1.0	
3.3	9 ± 2.1
10.0	6 ± 1.3
33.0	10 ± 1.2
100.0	8 ± 1.5
200.0	9 ± 0.7
333.0	
Trial Summary	Negative
Positive Control ²	155 ± 1.8
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	15 ± 4.6	15 ± 1.5	21 ± 1.7	27 ± 3.4	22 ± 2.1
1.0		19 ± 2.1			
3.3	19 ± 1.8	22 ± 3.5	26 ± 4.6	26 ± 2.9	22 ± 2.3
10.0	20 ± 0.9	14 ± 1.9	27 ± 4.1	26 ± 3.1	20 ± 1.7
33.0	16 ± 2.6	21 ± 4.8	21 ± 6.6	22 ± 4.9	19 ± 1.8
100.0	17 ± 1.3 ^s	16 ± 0.8 ^s	24 ± 2.0	28 ± 4.7	26 ± 2.9
200.0	15 ± 2.1 ^s			21 ± 4.5 ^s	
333.0			18 ± 0.0 ^s		12 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1367 ± 14.2
Positive Control ³			966 ± 6.8	1093 ± 46.0	
Positive Control ⁶	1738 ± 117.8	1881 ± 23.2			

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Date Report Requested: 09/15/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.5
1.0	
3.3	29 ± 2.1
10.0	27 ± 1.5
33.0	27 ± 3.3
100.0	19 ± 0.0
200.0	22 ± 1.8 ^s
333.0	
Trial Summary	Negative
Positive Control ²	1327 ± 46.7
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 ****