

Experiment Number: 293535

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

G06: Ames Summary Data

Test Compound: **p-Toluic acid**

CAS Number: **99-94-5**

Date Report Requested: **09/11/2018**

Time Report Requested: **21:15:11**

NTP Study Number:

293535

Study Result:

Negative

Experiment Number: 293535

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Mutagenicity**G06: Ames Summary Data**

Test Compound: p-Toluic acid

CAS Number: 99-94-5

Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 5.6	124 ± 9.5	136 ± 14.4	120 ± 5.0	134 ± 20.1
33.0	112 ± 1.2	109 ± 0.6	132 ± 4.5	127 ± 7.0	138 ± 8.2
100.0	107 ± 2.5	108 ± 3.2	143 ± 7.9	135 ± 5.8	134 ± 5.7
333.0	95 ± 3.8	114 ± 13.5	118 ± 2.5	120 ± 6.1	126 ± 7.5
1000.0	108 ± 13.5	94 ± 3.7	121 ± 10.1	134 ± 5.2	106 ± 10.9
1666.0	92 ± 9.2	91 ± 5.8			
3333.0			111 ± 1.9	77 ± 1.3	93 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					630 ± 18.8
Positive Control ³			331 ± 34.9		
Positive Control ⁴				408 ± 13.7	
Positive Control ⁵	465 ± 17.2	990 ± 25.5			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	127 ± 2.2
33.0	124 ± 1.9
100.0	124 ± 3.8
333.0	119 ± 5.1
1000.0	108 ± 2.9
1666.0	
3333.0	95 ± 9.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	437 ± 41.9
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.6	11 ± 0.9	9 ± 1.8	10 ± 2.3	8 ± 1.8
33.0	8 ± 0.9	10 ± 1.8	12 ± 1.2	11 ± 1.7	8 ± 1.5
100.0	9 ± 2.1	8 ± 0.9	13 ± 1.2	9 ± 0.9	12 ± 2.3
333.0	7 ± 2.0	10 ± 1.0	14 ± 1.5	11 ± 1.5	4 ± 0.9
1000.0	9 ± 2.0	7 ± 1.9	11 ± 3.2	8 ± 2.4	3 ± 1.2
1666.0	6 ± 1.5	9 ± 1.5			
3333.0			8 ± 0.7	7 ± 1.7	5 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					87 ± 5.5
Positive Control ⁴			82 ± 4.8		
Positive Control ⁵	399 ± 15.3	965 ± 32.1			
Positive Control ⁶				64 ± 0.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.3
33.0	9 ± 1.2
100.0	10 ± 0.3
333.0	7 ± 1.0
1000.0	13 ± 2.3
1666.0	
3333.0	5 ± 0.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	102 ± 10.7
Positive Control ⁵	
Positive Control ⁶	

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Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	147 ± 15.9	148 ± 5.0	197 ± 13.5	198 ± 11.5	148 ± 11.5
33.0	154 ± 0.7	150 ± 8.8	196 ± 5.2	202 ± 13.0	160 ± 12.4
100.0	158 ± 5.0	168 ± 2.5	193 ± 8.8	195 ± 3.2	165 ± 1.5
333.0	156 ± 10.3	151 ± 2.1	199 ± 10.3	187 ± 8.4	164 ± 9.1
1000.0	147 ± 2.8	159 ± 6.9	199 ± 8.4	197 ± 8.1	161 ± 7.1
1666.0	141 ± 5.0	113 ± 14.0			
3333.0			137 ± 14.4	175 ± 2.6	149 ± 7.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					438 ± 8.7
Positive Control ³			331 ± 24.5		
Positive Control ⁴					
Positive Control ⁶				321 ± 4.8	
Positive Control ⁷	473 ± 15.9	496 ± 23.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	158 ± 4.9
33.0	159 ± 5.7
100.0	153 ± 9.5
333.0	158 ± 7.4
1000.0	159 ± 7.2
1666.0	
3333.0	143 ± 4.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	380 ± 13.3
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.3	19 ± 2.5	24 ± 2.8	20 ± 1.5	20 ± 2.3
33.0	14 ± 1.5	20 ± 3.6	20 ± 2.6	16 ± 1.5	24 ± 2.6
100.0	22 ± 2.9	21 ± 2.6	22 ± 2.6	16 ± 1.8	22 ± 2.1
333.0	15 ± 0.3	16 ± 3.0	17 ± 1.7	20 ± 2.7	17 ± 3.2
1000.0	23 ± 1.7	14 ± 1.7	17 ± 1.8	18 ± 1.8	21 ± 2.7
1666.0	21 ± 3.8	16 ± 2.9			
3333.0			6 ± 0.3	12 ± 3.8	13 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					427 ± 11.0
Positive Control ³			148 ± 19.0	84 ± 1.7	
Positive Control ⁸	371 ± 7.3	499 ± 17.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 4.1
33.0	16 ± 0.7
100.0	19 ± 3.2
333.0	13 ± 0.7
1000.0	17 ± 2.0
1666.0	
3333.0	15 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	241 ± 14.9
Positive Control ⁸	

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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: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****