

Experiment Number: 737482

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

G06: Ames Summary Data

Test Compound: **Methyl-p-toluate**

CAS Number: **99-75-2**

Date Report Requested: **09/17/2018**

Time Report Requested: **05:32:06**

NTP Study Number:

737482

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Methyl-p-toluate

CAS Number: 99-75-2

Date Report Requested: 09/17/2018

Time Report Requested: 05:32:06

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	150 ± 6.4	121 ± 13.6	137 ± 14.4	144 ± 11.1	125 ± 4.3
3.0		128 ± 8.1			
10.0	150 ± 13.9	129 ± 3.5			
33.0	145 ± 3.2	118 ± 12.5	141 ± 11.8	171 ± 6.7	131 ± 9.0
100.0	159 ± 9.3	115 ± 7.4	143 ± 9.6	172 ± 9.1	132 ± 9.0
333.0	144 ± 8.0	97 ± 9.3	134 ± 5.5	160 ± 4.7	140 ± 6.2
666.0	21 ± 14.3 ^s				
1000.0			90 ± 2.2	165 ± 8.0	103 ± 3.6
1666.0			109 ± 13.2		83 ± 2.2
3333.0				62 ± 31.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					617 ± 24.7
Positive Control ³	447 ± 24.3	462 ± 3.2			
Positive Control ⁴			420 ± 19.9		
Positive Control ⁵				558 ± 19.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	162 ± 7.0
3.0	
10.0	
33.0	160 ± 4.0
100.0	159 ± 15.6
333.0	142 ± 2.6
666.0	
1000.0	140 ± 7.3
1666.0	
3333.0	60 ± 30.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	697 ± 75.4
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	29 ± 2.0	17 ± 2.4	8 ± 1.3	16 ± 2.8	9 ± 2.6
3.0		14 ± 0.3			
10.0	36 ± 2.4	13 ± 1.7			
33.0	24 ± 3.0	16 ± 1.0	9 ± 2.5	12 ± 1.5	8 ± 2.3
100.0	25 ± 2.3	11 ± 1.8	8 ± 0.9	15 ± 3.2	8 ± 1.2
333.0	21 ± 2.1	6 ± 1.5 ^s	6 ± 2.2	14 ± 1.5	6 ± 1.2
666.0	Toxic				
1000.0			5 ± 0.3	11 ± 2.7	8 ± 1.2
1666.0			7 ± 0.7		5 ± 2.5
3333.0				10 ± 1.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					241 ± 27.2
Positive Control ³	408 ± 18.0	457 ± 19.3			
Positive Control ⁵			197 ± 9.0		
Positive Control ⁶				194 ± 3.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
3.0	
10.0	
33.0	10 ± 0.9
100.0	9 ± 2.1
333.0	9 ± 1.0
666.0	
1000.0	8 ± 2.4
1666.0	
3333.0	4 ± 1.0
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	432 ± 50.6
Positive Control ⁶	

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Test Compound: Methyl-p-toluate

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Date Report Requested: 09/17/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.7	19 ± 2.4	12 ± 2.8
10.0	11 ± 0.9		
33.0	15 ± 1.5	16 ± 1.5	8 ± 2.8
100.0	9 ± 1.2	14 ± 1.2	16 ± 0.9
333.0	10 ± 2.2	19 ± 1.2	11 ± 1.2
666.0	Toxic		
1000.0		15 ± 2.4	13 ± 1.9
3333.0		10 ± 2.9	6 ± 1.0
Trial Summary	Negative	Negative	Negative
Positive Control ⁴			44 ± 3.0
Positive Control ⁵		55 ± 0.9	
Positive Control ⁷	314 ± 38.6		

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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	203 ± 3.5	145 ± 5.0	179 ± 6.6	220 ± 4.8	165 ± 9.1
3.0		153 ± 6.2			
10.0	194 ± 3.6	165 ± 5.0			
33.0	197 ± 1.0	170 ± 11.9	197 ± 2.2	223 ± 2.2	164 ± 5.8
100.0	200 ± 1.0	159 ± 5.2	199 ± 6.6	206 ± 6.9	170 ± 9.7
333.0	151 ± 10.3	94 ± 7.2	184 ± 10.4	217 ± 3.7	177 ± 6.4
666.0	4 ± 1.0 ^s				
1000.0			147 ± 4.7	163 ± 4.4	149 ± 7.4
1666.0			111 ± 7.4		115 ± 27.5
3333.0				128 ± 1.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					389 ± 19.7
Positive Control ⁴			305 ± 7.4		
Positive Control ⁵				406 ± 16.2	
Positive Control ⁷	709 ± 43.8	712 ± 37.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	209 ± 10.7
3.0	
10.0	
33.0	214 ± 8.3
100.0	190 ± 6.7
333.0	180 ± 19.6
666.0	
1000.0	176 ± 1.0
1666.0	
3333.0	150 ± 5.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	349 ± 18.1
Positive Control ⁵	
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	16 ± 2.4	13 ± 1.5	25 ± 3.3	36 ± 4.0	23 ± 0.9
3.0		12 ± 0.3			
10.0	16 ± 2.3	13 ± 1.2			
33.0	17 ± 1.2	8 ± 0.7	26 ± 3.5	31 ± 2.7	29 ± 1.2
100.0	17 ± 2.1	12 ± 2.2	22 ± 3.5	29 ± 4.7	26 ± 3.6
333.0	11 ± 2.5	7 ± 2.0 ^s	23 ± 1.8	29 ± 1.5	18 ± 1.0
666.0	Toxic				
1000.0			17 ± 0.3	27 ± 1.5	19 ± 1.2
1666.0			21 ± 3.3		20 ± 2.3
3333.0				16 ± 1.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					403 ± 23.2
Positive Control ⁴			258 ± 31.4	145 ± 3.8	
Positive Control ⁸	737 ± 8.8	489 ± 34.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 1.8
3.0	
10.0	
33.0	33 ± 4.4
100.0	25 ± 0.6
333.0	25 ± 0.6
666.0	
1000.0	13 ± 1.7
1666.0	
3333.0	16 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	464 ± 20.4
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 Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****