

Experiment Number: 280150

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: p-Toluidinium chloride

CAS Number: 540-23-8

Date Report Requested: 09/11/2018

Time Report Requested: 14:53:23

NTP Study Number:

280150

Study Result:

Weakly Positive

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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	132 ± 7.8	107 ± 8.1	114 ± 5.8	143 ± 1.5	113 ± 6.2
33.0	142 ± 8.3		131 ± 5.2		120 ± 7.8
100.0	133 ± 3.5	123 ± 4.7	135 ± 4.9	130 ± 2.5	128 ± 4.0
333.0	135 ± 8.4	103 ± 7.0	153 ± 12.6	145 ± 3.2	154 ± 3.7
1000.0	137 ± 5.1	122 ± 6.0	157 ± 3.3	155 ± 14.2	146 ± 4.4
2000.0	137 ± 6.2 ^s	116 ± 11.1 ^s	157 ± 5.4 ^s	156 ± 9.3 ^s	178 ± 8.2 ^s
3333.0		111 ± 7.3 ^s		156 ± 8.6 ^s	
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²					1622 ± 18.3
Positive Control ³			1577 ± 21.7		
Positive Control ⁴				525 ± 16.3	
Positive Control ⁵	1441 ± 49.7	1516 ± 49.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	122 ± 0.7	110 ± 10.4
33.0		
100.0	134 ± 0.3	139 ± 5.1
333.0	164 ± 5.8	147 ± 9.6
1000.0	219 ± 23.4	158 ± 9.5
2000.0	239 ± 10.3 ^s	197 ± 19.0 ^s
3333.0	256 ± 6.9 ^s	191 ± 10.7 ^s
Trial Summary	Positive	Weakly Positive
Positive Control ²		
Positive Control ³		
Positive Control ⁴	993 ± 9.9	1952 ± 66.7
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	28 ± 1.5	39 ± 2.0	17 ± 3.5	13 ± 2.0	15 ± 2.2
33.0	41 ± 1.8		13 ± 2.1		12 ± 0.9
100.0	34 ± 4.0	28 ± 5.9	9 ± 2.8	13 ± 1.5	9 ± 2.0
333.0	36 ± 6.2	30 ± 2.0	14 ± 0.9	16 ± 2.1	12 ± 1.9
1000.0	36 ± 2.0	32 ± 2.3	13 ± 2.2	15 ± 1.8	16 ± 2.5
2000.0	36 ± 2.8 ^s	33 ± 5.4	10 ± 2.5 ^s	17 ± 2.3	15 ± 0.9 ^s
3333.0		17 ± 3.5 ^s		11 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					149 ± 9.0
Positive Control ³			113 ± 7.0		
Positive Control ⁴				134 ± 9.5	
Positive Control ⁵	1209 ± 29.8	1131 ± 12.1			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 3.3
33.0	
100.0	14 ± 1.9
333.0	16 ± 2.9
1000.0	18 ± 1.9
2000.0	17 ± 1.2
3333.0	17 ± 2.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	288 ± 16.7
Positive Control ⁵	

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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	128 ± 1.5	138 ± 4.3	135 ± 4.2	233 ± 6.4	110 ± 6.6
33.0	106 ± 0.7		157 ± 4.3		140 ± 12.2
100.0	110 ± 9.7	131 ± 0.3	146 ± 10.2	227 ± 17.2	172 ± 3.0
333.0	120 ± 9.2	127 ± 7.2	151 ± 6.3	220 ± 14.6	148 ± 1.5
1000.0	127 ± 4.6	133 ± 3.5 ^s	173 ± 5.0	193 ± 3.9	135 ± 8.3
2000.0	127 ± 10.7 ^s	122 ± 2.0 ^s	166 ± 6.7 ^s	218 ± 8.8 ^s	144 ± 7.5 ^s
3333.0		99 ± 5.7 ^s		184 ± 6.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					1011 ± 75.0
Positive Control ³			1087 ± 30.4		
Positive Control ⁴				477 ± 11.8	
Positive Control ⁶	689 ± 25.4				
Positive Control ⁷		1257 ± 33.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	194 ± 12.8
33.0	
100.0	205 ± 8.7
333.0	212 ± 12.7
1000.0	200 ± 5.8
2000.0	209 ± 8.9 ^s
3333.0	194 ± 2.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	840 ± 31.0
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	14 ± 1.5	17 ± 3.5	39 ± 2.2	40 ± 1.7	30 ± 3.9
33.0	17 ± 3.5		40 ± 1.7		37 ± 3.9
100.0	19 ± 2.8	15 ± 1.5	43 ± 3.5	34 ± 2.6	35 ± 4.1
333.0	19 ± 2.6	16 ± 5.7	44 ± 1.2	36 ± 4.7	36 ± 1.2
1000.0	21 ± 2.7	19 ± 2.6	38 ± 2.8	47 ± 5.2	38 ± 5.0
2000.0	17 ± 1.0	15 ± 0.9	41 ± 2.9	35 ± 0.9	38 ± 1.5
3333.0		13 ± 1.2 ^s		40 ± 4.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1930 ± 44.6
Positive Control ³			1571 ± 43.9		
Positive Control ⁴				443 ± 22.0	
Positive Control ⁸	1562 ± 37.1	1112 ± 32.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 2.2
33.0	
100.0	28 ± 1.5
333.0	40 ± 1.7
1000.0	44 ± 7.7
2000.0	45 ± 3.1 ^s
3333.0	46 ± 3.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1251 ± 7.4
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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 4.0 ug/Plate 4-Nitro-O-Phenylenediamine

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****