

Experiment Number: 402517

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Chloro-o-toluidine hydrochloride

CAS Number: 3165-93-3

Date Report Requested: 09/14/2018

Time Report Requested: 16:45:41

NTP Study Number:

402517

Study Result:

Equivocal

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Test Compound: 4-Chloro-o-toluidine hydrochloride
CAS Number: 3165-93-3

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	142 ± 9.9	102 ± 9.3	158 ± 10.5	164 ± 15.0	129 ± 12.5
3.0		136 ± 5.3			
10.0	152 ± 3.5	121 ± 5.4			
33.0	142 ± 5.1	104 ± 9.7	147 ± 12.5	164 ± 2.7	144 ± 5.6
66.0					143 ± 13.5
100.0	125 ± 10.5	101 ± 8.7	173 ± 5.0	178 ± 8.4	157 ± 5.7
166.0					128 ± 7.9
333.0	79 ± 10.4 ^s	19 ± 9.6 ^s	171 ± 6.4	159 ± 6.7	128 ± 15.5
666.0	82 ± 21.1 ^s				
1000.0			118 ± 8.6	148 ± 6.0	
1666.0			109 ± 3.2		
3333.0				167 ± 3.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1072 ± 31.6
Positive Control ³			412 ± 8.9		
Positive Control ⁴	414 ± 6.0	383 ± 13.2			
Positive Control ⁵				421 ± 9.1	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	155 ± 7.5	151 ± 5.5	154 ± 6.0	130 ± 9.5
3.0				
10.0				
33.0	141 ± 21.0	159 ± 2.3	166 ± 20.8	144 ± 9.7
66.0	158 ± 6.0			144 ± 8.0
100.0	146 ± 11.5	168 ± 9.8	192 ± 10.1	163 ± 7.3
166.0	122 ± 8.3			134 ± 4.3
333.0	144 ± 1.3	126 ± 13.4	175 ± 7.5	133 ± 11.3
666.0				
1000.0		117 ± 8.0	153 ± 8.2	
1666.0		101 ± 12.1		
3333.0			169 ± 4.1 ^s	
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ²	827 ± 36.0	634 ± 11.1		
Positive Control ³			491 ± 45.0	645 ± 40.0
Positive Control ⁴				
Positive Control ⁵				

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CAS Number: 3165-93-3

Date Report Requested: 09/14/2018

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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	19 ± 4.5	23 ± 3.7	12 ± 1.2	11 ± 0.9	9 ± 0.6
3.0	19 ± 3.2	16 ± 0.3			
10.0	17 ± 1.9	17 ± 2.4			
33.0	17 ± 1.0	13 ± 2.9	10 ± 1.2	15 ± 0.6	12 ± 2.1
100.0	7 ± 0.9	15 ± 1.0	11 ± 2.8	14 ± 3.8	8 ± 1.9
333.0	1 ± 0.7 ^s	4 ± 1.5 ^s	9 ± 2.3	12 ± 4.5	9 ± 1.5
1000.0			10 ± 2.3	6 ± 0.9	16 ± 4.6
1666.0			10 ± 3.8	10 ± 0.3	8 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					169 ± 13.7
Positive Control ⁴	286 ± 6.6	276 ± 10.4			
Positive Control ⁵			111 ± 8.7		
Positive Control ⁶				86 ± 3.8	

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Test Compound: 4-Chloro-o-toluidine hydrochloride

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Date Report Requested: 09/14/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 0.6
3.0	
10.0	
33.0	10 ± 1.5
100.0	6 ± 1.8
333.0	9 ± 0.9
1000.0	10 ± 1.2
1666.0	13 ± 1.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	392 ± 59.3
Positive Control ⁶	

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Test Compound: 4-Chloro-o-toluidine hydrochloride
CAS Number: 3165-93-3

Date Report Requested: 09/14/2018

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Strain: TA1537

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9	5 ± 0.9	6 ± 1.2	6 ± 1.3	4 ± 2.4
10.0	5 ± 1.2	10 ± 1.9	7 ± 2.6	3 ± 1.5	5 ± 1.2
33.0	5 ± 1.0	4 ± 1.9	9 ± 2.3	6 ± 0.9	5 ± 0.9
100.0	3 ± 0.6	5 ± 2.2	7 ± 0.7	8 ± 2.3	3 ± 1.2
333.0	6 ± 3.3	3 ± 1.0	10 ± 2.1	5 ± 1.5	2 ± 0.3
1000.0	3 ± 2.3 ^s	8 ± 0.6	8 ± 0.7	3 ± 0.3 ^s	6 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				47 ± 2.7	33 ± 2.0
Positive Control ³	26 ± 1.2	20 ± 1.7			
Positive Control ⁵			20 ± 2.2		

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 1.2
10.0	6 ± 0.6
33.0	4 ± 0.6
100.0	7 ± 2.1
333.0	9 ± 1.3
1000.0	8 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	28 ± 1.7
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	141 ± 13.8	158 ± 19.3	186 ± 7.8	223 ± 4.8	199 ± 10.6
3.0	184 ± 14.3	174 ± 4.3			
10.0	172 ± 9.7	184 ± 3.5	213 ± 11.1		181 ± 5.0
16.0					
33.0	175 ± 4.2	165 ± 10.2	203 ± 4.2	277 ± 14.6	206 ± 2.4
66.0					
100.0	192 ± 7.9	179 ± 3.6	215 ± 22.4	299 ± 22.0	193 ± 17.4
166.0					
333.0	59 ± 20.0 ^s	136 ± 14.7 ^s	191 ± 9.7	216 ± 4.7	278 ± 4.4
666.0					
1000.0			175 ± 18.7	195 ± 11.8	271 ± 12.7
1666.0				202 ± 14.3	183 ± 5.9
Trial Summary	Equivocal	Negative	Negative	Equivocal	Equivocal
Positive Control ²					
Positive Control ³			713 ± 32.5	357 ± 15.5	357 ± 8.1
Positive Control ⁵					
Positive Control ⁷	545 ± 18.2	535 ± 10.3			

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Test Compound: 4-Chloro-o-toluidine hydrochloride
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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	199 ± 2.6	181 ± 9.0	203 ± 13.7	203 ± 36.1	223 ± 13.0
3.0					
10.0	232 ± 4.2	230 ± 1.9		250 ± 8.9	312 ± 13.2
16.0		243 ± 13.8			311 ± 9.4
33.0	255 ± 7.2	223 ± 9.5	190 ± 11.9	297 ± 25.8	312 ± 4.0
66.0		239 ± 18.2			242 ± 11.4
100.0	240 ± 23.1	237 ± 5.5	207 ± 9.4	313 ± 11.8	230 ± 2.3
166.0		265 ± 5.9			177 ± 15.0
333.0	230 ± 10.4	312 ± 11.9	198 ± 9.6	269 ± 5.9	234 ± 7.0
666.0		274 ± 19.5			246 ± 23.9
1000.0	179 ± 8.2		170 ± 5.2	242 ± 7.9	
1666.0			139 ± 10.8		
Trial Summary	Equivocal	Weakly Positive	Negative	Equivocal	Equivocal
Positive Control ²					
Positive Control ³	358 ± 31.6	355 ± 9.5			
Positive Control ⁵			455 ± 13.9	475 ± 13.6	329 ± 2.9
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	202 ± 2.1	209 ± 13.9	184 ± 8.1	230 ± 11.3	151 ± 6.4
3.0					
10.0	226 ± 3.0		161 ± 0.7	182 ± 9.7	
16.0					
33.0	209 ± 22.0	255 ± 27.6	193 ± 10.0	225 ± 16.0	185 ± 13.4
66.0					
100.0	197 ± 12.7	270 ± 9.4	185 ± 3.2	201 ± 10.8	180 ± 10.4
166.0					
333.0	218 ± 18.8	250 ± 6.4	254 ± 3.8	164 ± 6.3	208 ± 6.7
666.0					
1000.0	93 ± 51.8 ^s	250 ± 6.4	206 ± 11.0	219 ± 20.2	144 ± 14.3
1666.0		266 ± 5.0	96 ± 20.3 ^s		158 ± 9.2
Trial Summary	Negative	Equivocal	Equivocal	Negative	Equivocal
Positive Control ²	777 ± 22.0	564 ± 13.8	688 ± 37.3	541 ± 11.6	
Positive Control ³					452 ± 37.0
Positive Control ⁵					
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	212 ± 11.3
3.0	
10.0	190 ± 6.8
16.0	
33.0	221 ± 4.5
66.0	
100.0	197 ± 48.5
166.0	
333.0	159 ± 13.6
666.0	
1000.0	240 ± 13.2
1666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	448 ± 23.1
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 5% Hamster S9
Vehicle Control ¹	23 ± 2.6	20 ± 1.5	28 ± 1.5	28 ± 1.5	38 ± 0.3
3.0		17 ± 1.8			
10.0	34 ± 5.6	18 ± 2.3			
33.0	32 ± 9.0	19 ± 2.9	26 ± 3.9	36 ± 4.5	27 ± 4.6
66.0					30 ± 1.3
100.0	28 ± 1.5	21 ± 2.6	22 ± 2.8	40 ± 4.3	25 ± 4.3
166.0					18 ± 0.9
333.0	9 ± 1.2 ^s	5 ± 2.7 ^s	28 ± 5.2	38 ± 2.8	23 ± 0.9
666.0	16 ± 2.0 ^s				
1000.0			20 ± 3.5	42 ± 4.2	
1666.0			18 ± 3.6		
3333.0				42 ± 3.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			205 ± 10.1	89 ± 4.1	92 ± 8.1
Positive Control ⁵					
Positive Control ⁸	709 ± 22.2	384 ± 24.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	38 ± 3.5	26 ± 1.2	36 ± 1.8	30 ± 5.5
3.0				
10.0				
33.0	37 ± 6.3	20 ± 2.3	39 ± 3.2	36 ± 4.4
66.0	27 ± 1.5			31 ± 1.5
100.0	40 ± 5.4	22 ± 3.5	47 ± 2.8	35 ± 4.1
166.0	27 ± 2.1			37 ± 5.0
333.0	27 ± 0.6	24 ± 4.4	56 ± 4.4	37 ± 2.2
666.0				
1000.0		21 ± 2.6	36 ± 3.2	
1666.0		18 ± 2.0		
3333.0			26 ± 5.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		446 ± 24.7		
Positive Control ³	89 ± 6.5		300 ± 22.8	
Positive Control ⁵				215 ± 16.3
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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

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 ****