

Experiment Number: 303878

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetylchloride

CAS Number: 75-36-5

Date Report Requested: 09/12/2018

Time Report Requested: 03:15:38

NTP Study Number:

303878

Study Result:

Negative

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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	149 ± 5.9	124 ± 10.0	153 ± 1.0	141 ± 14.1	151 ± 4.7
33.0		143 ± 7.2	134 ± 7.3		151 ± 13.7
100.0	161 ± 6.1	159 ± 4.8	144 ± 5.1	154 ± 6.4	154 ± 9.9
333.0	175 ± 1.9	165 ± 7.4	133 ± 9.3	143 ± 10.3	165 ± 3.0
1000.0	148 ± 15.9	142 ± 12.2	125 ± 14.0	152 ± 12.8	161 ± 3.6
3333.0	117 ± 2.9	130 ± 11.8	133 ± 15.0 ^p	110 ± 9.3 ^x	150 ± 5.9 ^p
6666.0	Toxic			94 ± 8.0 ^x	
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					845 ± 38.4
Positive Control ³			563 ± 36.8		
Positive Control ⁴	425 ± 16.3	378 ± 5.8			
Positive Control ⁵				542 ± 31.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	147 ± 8.7
33.0	
100.0	153 ± 9.1
333.0	164 ± 8.0
1000.0	149 ± 10.4
3333.0	126 ± 13.5 ^x
6666.0	45 ± 39.8 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	756 ± 60.6
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	29 ± 2.0	40 ± 1.2	14 ± 1.5	12 ± 1.2	12 ± 1.5
33.0		32 ± 3.7	11 ± 2.6		11 ± 1.0
100.0	31 ± 0.3	23 ± 5.0	13 ± 0.3	11 ± 0.3	11 ± 2.2
333.0	31 ± 3.4	25 ± 2.5	12 ± 3.9	13 ± 3.4	14 ± 0.6
1000.0	27 ± 2.7	23 ± 3.8	13 ± 1.5	9 ± 1.7	9 ± 1.2
3333.0	20 ± 1.5	24 ± 4.0	9 ± 1.5 ^p	8 ± 1.0 ^x	12 ± 2.9 ^p
6666.0	4 ± 2.7 ^s			11 ± 2.4 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					209 ± 21.1
Positive Control ⁴	368 ± 9.1	305 ± 2.3			
Positive Control ⁵			143 ± 3.3		
Positive Control ⁶				163 ± 17.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.1
33.0	
100.0	15 ± 1.2
333.0	11 ± 2.7
1000.0	9 ± 1.2
3333.0	7 ± 1.2 ^x
6666.0	13 ± 1.5 ^x
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	487 ± 23.1
Positive Control ⁶	

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Test Compound: Acetylchloride
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Date Report Requested: 09/12/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.7	10 ± 0.7	12 ± 1.7
100.0	12 ± 1.2	12 ± 1.5	11 ± 1.2
333.0	10 ± 2.0	9 ± 2.3	10 ± 1.5
1000.0	13 ± 3.0	12 ± 2.1	9 ± 1.8
3333.0	11 ± 2.2	8 ± 0.9 ^x	11 ± 1.3 ^x
6666.0	Toxic	2 ± 0.9 ^x	3 ± 0.6 ^x
Trial Summary	Negative	Negative	Negative
Positive Control ³			48 ± 9.1
Positive Control ⁵		40 ± 4.6	
Positive Control ⁷	642 ± 95.6		

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Date Report Requested: 09/12/2018

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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	186 ± 4.7	218 ± 5.5	177 ± 6.8	177 ± 1.2	153 ± 8.1
33.0		208 ± 9.3	185 ± 1.8		161 ± 12.2
100.0	196 ± 2.3	218 ± 7.5	198 ± 3.7	200 ± 8.4	166 ± 2.8
333.0	197 ± 3.7	192 ± 4.2	189 ± 8.5	186 ± 5.8	165 ± 7.2
1000.0	179 ± 14.4	195 ± 15.7	190 ± 4.6	216 ± 1.5	179 ± 2.3
3333.0	182 ± 6.8	187 ± 9.9	182 ± 9.3 ^p	144 ± 14.3 ^x	167 ± 9.9 ^p
6666.0	65 ± 59.5 ^s			0 ± 0.0 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					500 ± 12.6
Positive Control ³			354 ± 10.2		
Positive Control ⁵				428 ± 17.1	
Positive Control ⁷	654 ± 48.9	677 ± 15.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	194 ± 6.6
33.0	
100.0	209 ± 9.7
333.0	208 ± 5.2
1000.0	208 ± 6.7
3333.0	179 ± 15.3 ^p
6666.0	152 ± 13.4 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	510 ± 25.4
Positive Control ⁵	
Positive Control ⁷	

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Test Compound: Acetylchloride

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Date Report Requested: 09/12/2018

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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	21 ± 2.6	21 ± 1.9	39 ± 0.7	49 ± 3.5	49 ± 3.8
33.0		22 ± 2.0	35 ± 4.4		35 ± 3.7
100.0	28 ± 2.7	19 ± 0.7	31 ± 0.9	53 ± 2.6	35 ± 5.0
333.0	24 ± 1.5	17 ± 2.6	28 ± 6.4	45 ± 2.1	34 ± 2.0
1000.0	25 ± 2.6	19 ± 1.0	36 ± 1.7	46 ± 7.5	42 ± 1.5
3333.0	17 ± 4.9	21 ± 2.6	27 ± 1.5 ^p	37 ± 4.4 ^p	20 ± 3.9 ^p
6666.0	Toxic			0 ± 0.0 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					916 ± 42.1
Positive Control ³			610 ± 16.6	151 ± 12.5	
Positive Control ⁸	510 ± 1.5	498 ± 17.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	36 ± 1.7
33.0	
100.0	32 ± 4.6
333.0	29 ± 2.8
1000.0	24 ± 4.7
3333.0	14 ± 1.2 ^x
6666.0	17 ± 10.5 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	427 ± 40.4
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: Acetone

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

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****