

Experiment Number: 656278

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

G06: Ames Summary Data

Test Compound: **Chloroacetonitrile**

CAS Number: **107-14-2**

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

Time Report Requested: **11:12:32**

NTP Study Number:

656278

Study Result:

Negative

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Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 12.5	136 ± 7.8	119 ± 7.0	130 ± 13.3	143 ± 5.0
10.0		130 ± 0.9			
33.0	126 ± 9.9	125 ± 6.4	123 ± 13.2	143 ± 9.7	151 ± 2.9
100.0	125 ± 5.2	123 ± 10.5	118 ± 7.8	139 ± 5.9	138 ± 6.8
333.0	116 ± 6.8	126 ± 5.1	128 ± 3.5	128 ± 3.7	138 ± 5.4
1000.0	102 ± 2.7	100 ± 6.2	104 ± 5.9	120 ± 10.4	113 ± 5.7
3333.0	32 ± 8.4 ^s		98 ± 11.8 ^s	78 ± 11.8 ^s	99 ± 12.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					969 ± 25.8
Positive Control ³			605 ± 11.2	1154 ± 114.1	
Positive Control ⁴	943 ± 24.3	1285 ± 34.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	161 ± 5.8
10.0	
33.0	145 ± 3.2
100.0	147 ± 1.5
333.0	126 ± 5.1
1000.0	132 ± 4.5
3333.0	65 ± 3.5 ^s
Trial Summary	Negative
Positive Control ²	1304 ± 20.5
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.6	28 ± 3.8	24 ± 2.9	31 ± 1.2	23 ± 3.0
10.0		25 ± 2.0			
33.0	26 ± 0.9	30 ± 2.9	23 ± 4.6	23 ± 0.9	21 ± 0.6
100.0	20 ± 1.5	26 ± 0.9	21 ± 3.7	19 ± 1.5	17 ± 2.2
333.0	24 ± 4.7	15 ± 1.5	23 ± 1.7	16 ± 2.6	22 ± 2.0
1000.0	10 ± 1.3 ^s	9 ± 1.2	22 ± 2.7	14 ± 1.3	19 ± 3.8
3333.0	4 ± 2.0 ^s		7 ± 2.3 ^s	6 ± 2.5 ^s	9 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					98 ± 7.9
Positive Control ³			48 ± 3.2	102 ± 8.5	
Positive Control ⁴	788 ± 32.0	1040 ± 25.7			

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Test Compound: Chloroacetonitrile
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Date Report Requested: 09/11/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	27 ± 2.0
10.0	
33.0	25 ± 2.0
100.0	19 ± 3.4
333.0	19 ± 5.1
1000.0	14 ± 1.8
3333.0	8 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	111 ± 7.9
Positive Control ³	
Positive Control ⁴	

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Date Report Requested: 09/11/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3	4 ± 1.2	4 ± 1.2	11 ± 1.7	9 ± 1.2
10.0		6 ± 0.3			
33.0	8 ± 1.5	9 ± 1.3	3 ± 0.9	8 ± 1.8	8 ± 0.9
100.0	7 ± 0.6	5 ± 1.2	9 ± 1.5	9 ± 1.0	4 ± 2.3
333.0	7 ± 1.5	8 ± 0.6	5 ± 0.3	6 ± 0.3	6 ± 0.6
1000.0	Toxic	6 ± 2.0 ^s	2 ± 0.6	5 ± 1.2	5 ± 1.5
3333.0	Toxic		3 ± 0.9 ^s	2 ± 0.3 ^s	2 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					83 ± 8.3
Positive Control ³			47 ± 6.2	137 ± 10.0	
Positive Control ⁵	291 ± 71.8	242 ± 58.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.9
10.0	
33.0	11 ± 0.9
100.0	7 ± 1.2
333.0	9 ± 2.1
1000.0	6 ± 1.2
3333.0	3 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	124 ± 14.8
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 3.7	21 ± 1.8	28 ± 1.7	27 ± 1.3	33 ± 4.0
10.0		22 ± 0.3			
33.0	25 ± 1.7	20 ± 1.2	24 ± 2.3	31 ± 5.4	24 ± 4.4
100.0	27 ± 1.5	27 ± 1.0	23 ± 2.6	26 ± 5.8	24 ± 5.0
333.0	21 ± 3.2 ^s	23 ± 1.5	22 ± 2.2	22 ± 3.8	25 ± 0.7
1000.0	Toxic	18 ± 1.7 ^s	20 ± 3.0	24 ± 1.2	20 ± 1.2
3333.0	Toxic		9 ± 2.2 ^s	16 ± 1.2 ^s	5 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					462 ± 15.6
Positive Control ³			303 ± 10.8	1104 ± 71.0	
Positive Control ⁶	1364 ± 71.0	1275 ± 13.0			

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Test Compound: Chloroacetonitrile

CAS Number: 107-14-2

Date Report Requested: 09/11/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.3
10.0	
33.0	32 ± 1.7
100.0	33 ± 3.7
333.0	24 ± 2.1
1000.0	24 ± 1.5
3333.0	14 ± 1.8 ^s
Trial Summary	Negative
Positive Control ²	1197 ± 46.5
Positive Control ³	
Positive Control ⁶	

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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: 95% Ethanol

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****