

Experiment Number: 306504

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

G06: Ames Summary Data

Test Compound: **Chloroethane**

CAS Number: **75-00-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **03:26:16**

NTP Study Number:

306504

Study Result:

Positive

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G06: Ames Summary Data
 Test Compound: Chloroethane
 CAS Number: 75-00-3

Date Report Requested: 09/12/2018
 Time Report Requested: 03:26:16

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹				132 ± 4.7	102 ± 5.2
Vehicle Control ²	128 ± 6.8	131 ± 4.9	112 ± 7.6		
0.002				127 ± 3.6	113 ± 4.3
0.007				196 ± 9.7	168 ± 6.0
0.01					159 ± 12.1
0.014				186 ± 10.9	132 ± 5.8
0.017					69 ± 9.0
0.02				18 ± 2.2	
0.03				0 ± 0.3 ^s	
10.0	146 ± 5.0	132 ± 0.0	133 ± 10.3		
			20.0		
		244 ± 0.0	168 ± 44.3		
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ³	738 ± 20.0	452 ± 28.4	647 ± 6.5	1038 ± 16.1	413 ± 12.7
Positive Control ⁴					
Positive Control ⁵					

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Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹				129 ± 11.1	122 ± 3.2
Vehicle Control ²	139 ± 3.7	136 ± 7.9	115 ± 2.6		
0.002				158 ± 5.9	174 ± 15.7
0.007				313 ± 13.1	213 ± 2.4
0.01					189 ± 4.7
0.014				250 ± 15.6	165 ± 7.9
0.017					76 ± 7.9
0.02				27 ± 2.9	
0.03				0 ± 0.0 ^s	
10.0		368 ± 8.5	237 ± 0.0	209 ± 6.4	
	103 ± 21.1	116 ± 0.0			
	42.0				
Trial Summary	Positive	Equivocal	Weakly Positive	Weakly Positive	Equivocal
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵	1236 ± 28.2	1164 ± 80.5	919 ± 23.1	3490 ± 19.7	3113 ± 24.5

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹				152 ± 7.6	128 ± 5.3
Vehicle Control ²	122 ± 9.2	138 ± 5.2	117 ± 7.7		
0.002				166 ± 6.4	191 ± 15.2
0.007				353 ± 9.3	250 ± 15.6
0.01					209 ± 15.5
0.014				308 ± 1.5	236 ± 12.4
0.017					111 ± 6.1
0.02				33 ± 3.5	
0.03				0 ± 0.3 ^s	
10.0			128 ± 7.3	0 ± 0.0	234 ± 8.5
Trial Summary	Negative	331 ± 0.0 Equivocal	275 ± 9.5 Equivocal	Weakly Positive	Weakly Positive
Positive Control ³					
Positive Control ⁴	919 ± 14.8	862 ± 53.8	879 ± 5.6	1580 ± 12.7	1338 ± 26.3
Positive Control ⁵					

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Date Report Requested: 09/12/2018
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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control ¹			33 ± 3.5	27 ± 3.0	
Vehicle Control ²	14 ± 1.5	21 ± 1.7			18 ± 1.8
0.002			37 ± 4.3	35 ± 5.9	
0.007			107 ± 7.4	76 ± 5.0	
0.01				91 ± 2.1	
0.014			116 ± 4.6	133 ± 1.7	
0.017				68 ± 3.6	
0.02			12 ± 2.0		
0.03			3 ± 0.3 ^s		
10.0	123 ± 0.0	133 ± 3.6			
			20.0		196 ± 0.0
		322 ± 0.0	346 ± 43.7		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³	142 ± 31.5	199 ± 10.4	738 ± 19.5	249 ± 15.1	137 ± 69.4
Positive Control ⁴					
Positive Control ⁵					

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Test Compound: Chloroethane

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹			22 ± 3.7	24 ± 0.7	
Vehicle Control ²	15 ± 0.9	14 ± 0.6			15 ± 3.2
0.002			47 ± 6.4	59 ± 6.0	
0.007			258 ± 4.8	168 ± 5.9	
0.01				196 ± 3.0	
0.014			187 ± 9.6	179 ± 13.5	
0.017				97 ± 3.2	
0.02			33 ± 3.2		
0.03			2 ± 1.2 ^s		
10.0	375 ± 11.1 200 ± 17.6 42.0	242 ± 0.0	203 ± 7.8		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³					
Positive Control ⁴					290 ± 13.1
Positive Control ⁵	344 ± 8.3	475 ± 15.2	399 ± 12.8	280 ± 17.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹			19 ± 2.1	29 ± 0.7
Vehicle Control ²	12 ± 2.3	14 ± 0.7		
0.002			54 ± 3.2	54 ± 3.8
0.007			239 ± 2.3	168 ± 19.7
0.01				183 ± 4.8
0.014			266 ± 4.9	184 ± 22.5
0.017				101 ± 4.8
0.02			31 ± 4.6	
0.03			2 ± 0.9 ^s	
10.0		102 ± 2.9	162 ± 0.0	251 ± 12.2
	333 ± 0.0	287 ± 6.0		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ³				
Positive Control ⁴	228 ± 18.3	242 ± 16.4	448 ± 3.8	381 ± 8.7
Positive Control ⁵				

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9
Vehicle Control ²	110 ± 6.4	159 ± 5.7
10.0	22 ± 5.9	67 ± 10.3
42.0		
Trial Summary	Negative	Negative
Positive Control ⁶	313 ± 9.8	
Positive Control ⁷		1317 ± 26.9

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Test Compound: Chloroethane
CAS Number: 75-00-3

Date Report Requested: 09/12/2018
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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ²	19 ± 1.7	21 ± 2.5	29 ± 2.6
10.0	21 ± 1.5	34 ± 1.2	13 ± 0.6
42.0			
Trial Summary	Negative	Negative	Negative
Positive Control ⁸			106 ± 12.3
Positive Control ⁴		617 ± 223.3	
Positive Control ⁹	170 ± 4.1		

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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: Air

2: Vehicle Control: Solvent

3: 0.5 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 0.05 ug/Plate Solvent

7: 2.5 ug/Plate 2-Aminoanthracene

8: 0.4 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **