

Experiment Number: 326814

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acrolein

CAS Number: 107-02-8

Date Report Requested: 09/12/2018

Time Report Requested: 15:47:34

NTP Study Number:

326814

Study Result:

Negative

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Strain: TA100

Dose (mL/Chamber)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	147 ± 12.2	144 ± 4.8	148 ± 6.2	149 ± 11.2	142 ± 8.3
0.005			132 ± 4.7	135 ± 2.6	
0.01			122 ± 5.5	161 ± 11.3	
0.025	120 ± 5.2	123 ± 9.4	139 ± 7.7	131 ± 10.5	
0.05	109 ± 7.8	132 ± 10.8	124 ± 3.8	99 ± 3.3	130 ± 20.0
0.1	140 ± 15.6	124 ± 5.8	137 ± 4.5	111 ± 11.0	126 ± 7.4
0.25	125 ± 24.6	80 ± 4.3	126 ± 8.7	133 ± 2.5	127 ± 0.9
0.5	0 ± 0.0 ^s				50 ± 12.2
1.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			552 ± 7.6	368 ± 8.2	1064 ± 83.8
Positive Control ⁴					
Positive Control ⁵	576 ± 49.4	661 ± 4.3			

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Strain: TA100

Dose (mL/Chamber)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	161 ± 9.8	169 ± 5.5	105 ± 1.7	158 ± 2.3	136 ± 1.2
0.005		173 ± 11.9	137 ± 11.7	114 ± 11.3	140 ± 17.3
0.01		161 ± 5.9	124 ± 0.3	115 ± 8.0	150 ± 6.7
0.025		156 ± 3.2	135 ± 2.0	117 ± 17.4	137 ± 7.6
0.05	198 ± 11.8	164 ± 7.9	136 ± 3.7	86 ± 5.7	142 ± 9.7
0.1	198 ± 2.0	174 ± 4.4	139 ± 0.3	122 ± 10.9	128 ± 8.5
0.25	181 ± 11.5	170 ± 8.8		102 ± 6.1	115 ± 7.0
0.5	158 ± 7.8				
1.0	83 ± 16.9 ^s				
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²				803 ± 42.3	704 ± 18.0
Positive Control ³					
Positive Control ⁴	315 ± 55.5	369 ± 16.7	408 ± 13.7		
Positive Control ⁵					

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Strain: TA100

Dose (mL/Chamber)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	133 ± 4.4	117 ± 8.1	135 ± 19.5	115 ± 1.0
0.005			168 ± 13.9	109 ± 11.0
0.01			160 ± 6.9	110 ± 4.4
0.025			143 ± 3.3	121 ± 6.4
0.05	132 ± 4.6	155 ± 9.0	147 ± 8.0	122 ± 6.2
0.1	129 ± 3.5	160 ± 7.4	138 ± 8.0	125 ± 1.2
0.25	123 ± 11.1	142 ± 7.7	128 ± 6.8	
0.5	112 ± 2.0	147 ± 3.2		
1.0		104 ± 2.9		
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²	1058 ± 43.6			
Positive Control ³		690 ± 18.7	492 ± 18.5	437 ± 41.9
Positive Control ⁴				
Positive Control ⁵				

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

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Strain: TA1535

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2	7 ± 1.5	12 ± 0.6	16 ± 4.4	13 ± 1.5
0.025	11 ± 0.3	8 ± 0.3			
0.05	14 ± 1.7	10 ± 2.0	8 ± 1.2	14 ± 3.5	9 ± 1.7
0.1	10 ± 1.2	7 ± 1.7	15 ± 2.7	12 ± 1.3	10 ± 0.9
0.25	8 ± 2.2	1 ± 0.6 ^s	9 ± 1.8	13 ± 1.5	12 ± 1.2
0.5			4 ± 1.2	13 ± 0.3	10 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					111 ± 3.2
Positive Control ⁴			94 ± 4.2		
Positive Control ⁶				102 ± 10.5	
Positive Control ⁵	783 ± 15.0	532 ± 26.4			

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Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.8
0.025	
0.05	11 ± 0.9
0.1	11 ± 0.6
0.25	19 ± 2.4
0.5	19 ± 1.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	148 ± 7.6
Positive Control ⁶	
Positive Control ⁵	

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Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	227 ± 2.2	224 ± 11.1	206 ± 7.4	238 ± 3.9	196 ± 13.2
0.025	215 ± 2.0	172 ± 4.7			
0.05	203 ± 12.0	165 ± 4.6	189 ± 10.1	218 ± 7.6	213 ± 3.8
0.1	203 ± 5.5	165 ± 7.9	225 ± 1.5	261 ± 10.9	205 ± 7.5
0.25	214 ± 4.2	11 ± 4.7	217 ± 9.7	259 ± 7.1	203 ± 8.0
0.5			39 ± 7.7	242 ± 4.7	137 ± 13.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					639 ± 31.8
Positive Control ³			376 ± 5.5		
Positive Control ⁴				374 ± 15.8	
Positive Control ⁷	459 ± 23.7	480 ± 16.0			

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Strain: TA97

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	216 ± 4.9
0.025	
0.05	227 ± 16.9
0.1	224 ± 2.1
0.25	221 ± 1.5
0.5	195 ± 15.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	430 ± 16.8
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 5.0	24 ± 1.7	23 ± 5.6	29 ± 0.7	25 ± 2.9
0.025	28 ± 1.2	26 ± 5.0			
0.05	25 ± 2.6	26 ± 0.6	17 ± 0.3	26 ± 6.2	17 ± 3.0
0.1	24 ± 2.3	28 ± 0.3	23 ± 2.1	20 ± 3.8	21 ± 0.9
0.25	16 ± 2.7 ^s	32 ± 2.9	16 ± 2.8	28 ± 5.9	17 ± 1.8
0.5	3 ± 1.5 ^s		8 ± 3.5	23 ± 1.3	15 ± 3.5
1.0				5 ± 0.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					725 ± 44.3
Positive Control ³			283 ± 5.5	90 ± 9.8	
Positive Control ⁸	570 ± 27.5	945 ± 8.6			

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Strain: TA98

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	28 ± 1.7
0.025	
0.05	19 ± 1.2
0.1	20 ± 2.1
0.25	19 ± 5.0
0.5	20 ± 2.2
1.0	14 ± 3.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	358 ± 18.1
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: 4-Nitro-o-Phenylenediamine

2: 0.5 mL/Chamber 2-Aminoanthracene

3: 1.0 mL/Chamber 2-Aminoanthracene

4: 2.5 mL/Chamber 2-Aminoanthracene

5: 5.0 mL/Chamber Sodium Azide

6: 5.0 mL/Chamber 2-Aminoanthracene

7: 50.0 mL/Chamber 9-Aminoacridine

8: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****