

Experiment Number: **811661**

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

G06: Ames Summary Data

Test Compound: **Formic acid**

CAS Number: **64-18-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **13:37:22**

NTP Study Number:

811661

Study Result:

Negative

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Date Report Requested: 09/15/2018

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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	133 ± 2.7	151 ± 11.0	162 ± 5.1	162 ± 9.1	171 ± 3.2
10.0		164 ± 8.4	157 ± 12.2		175 ± 3.8
33.0	132 ± 7.1	152 ± 10.1	162 ± 9.6	170 ± 3.1	160 ± 9.8
100.0	131 ± 3.5	157 ± 13.3	167 ± 5.7	161 ± 9.5	161 ± 5.8
333.0	138 ± 0.3	153 ± 9.8	170 ± 8.5	151 ± 9.0	175 ± 5.2
1000.0	137 ± 6.1	125 ± 15.3	157 ± 7.9	112 ± 10.7	165 ± 15.0
3333.0	68 ± 9.7 ^s			46 ± 20.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					657 ± 5.1
Positive Control ³	319 ± 10.5	316 ± 3.5			
Positive Control ⁴			599 ± 23.1		
Positive Control ⁵				447 ± 17.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	159 ± 9.2
10.0	
33.0	154 ± 4.3
100.0	139 ± 3.6
333.0	138 ± 7.5
1000.0	111 ± 3.5
3333.0	81 ± 4.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	399 ± 4.9
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	12 ± 0.7	26 ± 2.4	11 ± 1.0	18 ± 1.2	9 ± 1.7
10.0		21 ± 2.7	13 ± 2.6		11 ± 1.3
33.0	16 ± 1.7	15 ± 0.9	16 ± 0.7	20 ± 4.3	10 ± 0.9
100.0	13 ± 0.9	19 ± 1.2	14 ± 2.6	15 ± 0.9	11 ± 1.2
333.0	8 ± 0.7	13 ± 0.3	10 ± 1.0	16 ± 0.6	11 ± 1.8
1000.0	13 ± 2.3	13 ± 0.6	10 ± 2.1	7 ± 0.7 ^s	12 ± 1.2 ^s
3333.0	11 ± 1.7			3 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					180 ± 18.4
Positive Control ³	506 ± 24.1	332 ± 10.2			
Positive Control ⁵			214 ± 27.7		
Positive Control ⁶				60 ± 2.3	

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Test Compound: Formic acid

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Date Report Requested: 09/15/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 2.5
10.0	
33.0	9 ± 2.3
100.0	12 ± 2.6
333.0	12 ± 1.7
1000.0	7 ± 1.2 ^S
3333.0	4 ± 2.1 ^S
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	340 ± 22.8
Positive Control ⁶	

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Date Report Requested: 09/15/2018

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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	144 ± 9.3	175 ± 14.6	213 ± 5.9	178 ± 15.4	207 ± 11.1
10.0		181 ± 7.1	211 ± 9.5		213 ± 9.4
33.0	179 ± 9.8	182 ± 9.2	214 ± 3.5	191 ± 9.4	214 ± 9.7
100.0	179 ± 6.0	180 ± 10.5	201 ± 24.8	182 ± 4.4	206 ± 1.8
333.0	165 ± 8.1	179 ± 9.5	203 ± 10.4	188 ± 17.6	222 ± 2.1
1000.0	122 ± 2.7	185 ± 11.9	153 ± 5.2	109 ± 7.2	170 ± 8.6
3333.0	65 ± 6.1			85 ± 17.1 ^s	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					463 ± 15.8
Positive Control ⁴			449 ± 10.1		
Positive Control ⁵				454 ± 25.6	
Positive Control ⁷	415 ± 11.2	403 ± 11.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	172 ± 4.1	204 ± 19.6
10.0		
33.0	150 ± 6.6	214 ± 7.8
100.0	167 ± 34.0	213 ± 12.5
333.0	213 ± 13.0	196 ± 16.2
1000.0	146 ± 14.6	158 ± 10.7 ^S
3333.0	36 ± 10.2 ^S	65 ± 6.7 ^S
Trial Summary	Equivocal	Negative
Positive Control ²		
Positive Control ⁴	368 ± 24.9	451 ± 19.6
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 10% Hamster S9
Vehicle Control ¹	24 ± 2.6	24 ± 0.3	36 ± 3.7	40 ± 1.5	42 ± 2.1
10.0		21 ± 2.3	28 ± 5.2		18 ± 0.6
33.0	24 ± 2.0	17 ± 1.0	33 ± 5.4	35 ± 4.0	22 ± 2.8
100.0	24 ± 1.8	20 ± 2.0	30 ± 4.8	31 ± 1.5	42 ± 9.4
333.0	21 ± 3.5	14 ± 0.3	23 ± 1.5	23 ± 2.3	33 ± 4.0
1000.0	21 ± 2.3	20 ± 2.0	24 ± 3.5	25 ± 2.0	35 ± 2.2
3333.0	18 ± 0.0 ^s			7 ± 4.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					202 ± 16.0
Positive Control ⁴			202 ± 10.9	83 ± 7.3	
Positive Control ⁸	380 ± 5.6	423 ± 27.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 0.3
10.0	
33.0	31 ± 1.2
100.0	26 ± 0.3
333.0	26 ± 0.6
1000.0	25 ± 1.3
3333.0	11 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	147 ± 9.3
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 Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

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 ****