

Experiment Number: 573993

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

G06: Ames Summary Data

Test Compound: **Formanilide**

CAS Number: **103-70-8**

Date Report Requested: **09/14/2018**

Time Report Requested: **05:22:07**

NTP Study Number:

573993

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Formanilide

CAS Number: 103-70-8

Date Report Requested: 09/14/2018

Time Report Requested: 05:22:07

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	114 ± 6.1	108 ± 4.4	93 ± 6.7	97 ± 14.3	92 ± 11.3
100.0	116 ± 5.5	96 ± 6.1	94 ± 8.7	110 ± 1.9	93 ± 3.4
333.0	127 ± 8.8	98 ± 6.8	92 ± 7.7	111 ± 6.1	97 ± 5.8
1000.0	110 ± 0.9	107 ± 7.2	97 ± 6.1	96 ± 7.1	102 ± 3.6
3333.0	189 ± 82.4	94 ± 3.7 ^s	76 ± 5.5 ^s	88 ± 2.2 ^s	89 ± 3.3
4500.0		87 ± 4.4 ^s			
6666.0	Toxic		65 ± 3.8 ^s	76 ± 7.0 ^s	67 ± 7.2 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					483 ± 27.3
Positive Control ³			995 ± 43.3		
Positive Control ⁴				503 ± 7.5	
Positive Control ⁵	1420 ± 103.9	1338 ± 12.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	99 ± 4.4
100.0	89 ± 7.5
333.0	96 ± 5.8
1000.0	99 ± 8.1
3333.0	87 ± 9.5 ^s
4500.0	
6666.0	78 ± 6.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1182 ± 21.4
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	33 ± 3.7	19 ± 4.5	10 ± 0.9	8 ± 1.2	9 ± 1.5
100.0	29 ± 1.7	20 ± 1.0	15 ± 2.2	9 ± 1.2	8 ± 1.3
333.0	35 ± 5.5	18 ± 0.3	14 ± 2.9	10 ± 1.5	9 ± 1.3
1000.0	39 ± 2.7	23 ± 1.5	11 ± 2.7	14 ± 0.3	10 ± 3.2
3333.0	35 ± 4.9	29 ± 2.3	11 ± 1.7	15 ± 1.2	9 ± 1.8
4500.0		25 ± 3.3 ^s			
6666.0	Toxic		12 ± 1.2 ^s	11 ± 2.0 ^s	9 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			86 ± 2.3	81 ± 3.5	80 ± 6.3
Positive Control ⁴					
Positive Control ⁵	989 ± 5.5	856 ± 28.4			

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.8	12 ± 1.5	10 ± 0.3
100.0	11 ± 1.5	12 ± 0.3	12 ± 1.7
333.0	12 ± 1.2	13 ± 1.8	12 ± 0.7
1000.0	10 ± 2.5	16 ± 0.6	5 ± 1.9
3333.0	9 ± 0.9	14 ± 0.9	9 ± 1.3
4500.0			
6666.0	12 ± 1.0 ^s	12 ± 2.5 ^s	11 ± 2.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		71 ± 0.3	
Positive Control ³			
Positive Control ⁴	83 ± 7.2		97 ± 6.3
Positive Control ⁵			

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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	62 ± 8.1	76 ± 6.4	89 ± 7.3	177 ± 15.3	112 ± 5.7
100.0	73 ± 4.0	88 ± 2.7	90 ± 4.9	156 ± 6.4	112 ± 9.8
333.0	73 ± 4.8	77 ± 7.2	95 ± 6.7	122 ± 4.1	112 ± 7.6
1000.0	89 ± 0.9	75 ± 5.5	90 ± 2.5	111 ± 7.8	104 ± 6.4
3333.0	73 ± 5.8	74 ± 3.7	86 ± 5.0	150 ± 2.6	96 ± 10.1
4500.0		68 ± 5.2 ^s			
6666.0	Toxic		66 ± 2.9 ^s	94 ± 6.4 ^s	89 ± 2.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					776 ± 24.1
Positive Control ³			522 ± 19.5		
Positive Control ⁴				340 ± 8.7	
Positive Control ⁶	86 ± 2.5	750 ± 6.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	140 ± 3.6
100.0	137 ± 7.0
333.0	98 ± 5.5
1000.0	134 ± 6.7
3333.0	130 ± 8.7
4500.0	
6666.0	109 ± 4.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	680 ± 18.6
Positive Control ⁶	

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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	14 ± 3.1	18 ± 1.2	34 ± 3.3	28 ± 5.7	36 ± 0.6
100.0	18 ± 2.2	15 ± 1.5	27 ± 4.0	26 ± 3.0	28 ± 3.5
333.0	18 ± 3.8	13 ± 1.5	28 ± 2.3	28 ± 1.5	41 ± 3.7
1000.0	18 ± 3.2	14 ± 2.7	32 ± 2.5	32 ± 8.2	34 ± 0.7
3333.0	22 ± 3.2	16 ± 2.9	32 ± 0.9	30 ± 0.3	29 ± 4.3
4500.0		16 ± 0.7 ^s			
6666.0	Toxic		24 ± 7.0 ^s	27 ± 1.5 ^s	23 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					832 ± 48.6
Positive Control ³			688 ± 26.3		
Positive Control ⁴				261 ± 10.8	
Positive Control ⁷	1341 ± 33.9	1159 ± 41.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 4.1
100.0	32 ± 3.1
333.0	27 ± 4.2
1000.0	31 ± 4.3
3333.0	26 ± 2.1
4500.0	
6666.0	27 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	529 ± 16.8
Positive Control ⁷	

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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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****