

Experiment Number: 253916

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

G06: Ames Summary Data

Test Compound: **Nalidixic acid**

CAS Number: **389-08-2**

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

Time Report Requested: **02:08:07**

NTP Study Number:

253916

Study Result:

Negative

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Mutagenicity

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Test Compound: Nalidixic acid

CAS Number: 389-08-2

Date Report Requested: 09/11/2018

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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	80 ± 5.5	106 ± 6.1	81 ± 8.5	101 ± 6.4	64 ± 4.4
0.03	83 ± 7.3	93 ± 3.7			
0.1	89 ± 2.3	97 ± 2.5	93 ± 3.2	109 ± 16.6	74 ± 3.2
0.3	83 ± 7.2	114 ± 3.6	75 ± 5.5	101 ± 6.2	85 ± 5.0
1.0	89 ± 6.0	100 ± 7.6	89 ± 4.3	114 ± 4.2	82 ± 3.8
3.3	101 ± 3.3 ^s	108 ± 0.9	112 ± 4.1	125 ± 11.8	90 ± 3.8
10.0			92 ± 8.6 ^s	27 ± 8.4 ^s	40 ± 7.3 ^s
16.5					
33.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					920 ± 24.3
Positive Control ³			1456 ± 65.5		
Positive Control ⁴				1181 ± 1.2	
Positive Control ⁵	1242 ± 58.6	1277 ± 21.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	93 ± 4.7	115 ± 7.1
0.03		
0.1	91 ± 8.5	
0.3	97 ± 2.1	
1.0	90 ± 5.2	133 ± 4.2
3.3	103 ± 4.5	122 ± 5.2
10.0	133 ± 8.7	135 ± 7.8
16.5		150 ± 7.2
33.0		Toxic
Trial Summary	Equivocal	Negative
Positive Control ²		
Positive Control ³		
Positive Control ⁴	1949 ± 145.7	685 ± 42.5
Positive Control ⁵		

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Mutagenicity**G06: Ames Summary Data**

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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	23 ± 2.2	24 ± 0.9	14 ± 1.8	13 ± 0.3	16 ± 1.2
0.03	12 ± 3.4	24 ± 3.5			
0.1	22 ± 3.2	26 ± 2.0	8 ± 1.5	10 ± 1.5	7 ± 0.7
0.3	19 ± 3.4	20 ± 1.5	10 ± 2.8	13 ± 2.2	10 ± 1.9
1.0	23 ± 1.9	23 ± 3.5	12 ± 2.8	14 ± 1.8	11 ± 0.7
3.3	15 ± 2.0 ^s	21 ± 2.6	11 ± 3.2	14 ± 0.9	10 ± 1.2
10.0			0 ± 0.0 ^s	2 ± 0.7 ^s	3 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					93 ± 5.0
Positive Control ³			157 ± 3.2		
Positive Control ⁴				176 ± 9.2	
Positive Control ⁵	947 ± 2.6	1027 ± 20.5			

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Test Compound: Nalidixic acid
CAS Number: 389-08-2

Date Report Requested: 09/11/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.7
0.03	
0.1	12 ± 1.9
0.3	10 ± 1.8
1.0	14 ± 1.7
3.3	11 ± 0.3
10.0	12 ± 2.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	259 ± 17.7
Positive Control ⁵	

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Test Compound: Nalidixic acid

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Date Report Requested: 09/11/2018

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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	97 ± 6.2	91 ± 4.8	149 ± 2.1	225 ± 12.2	110 ± 4.4
0.03	87 ± 2.5	87 ± 0.7			
0.1	95 ± 7.5	77 ± 10.0	149 ± 5.6	221 ± 19.4	101 ± 5.5
0.3	86 ± 4.2	107 ± 12.0	124 ± 3.8	192 ± 8.6	115 ± 5.8
1.0	81 ± 3.2	100 ± 3.5	129 ± 9.5	190 ± 9.0	116 ± 10.5
3.3	98 ± 5.9	94 ± 1.5	121 ± 2.8	183 ± 12.1	94 ± 2.3
10.0			5 ± 2.4 ^s	31 ± 25.9 ^s	49 ± 7.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					957 ± 41.6
Positive Control ³			1157 ± 7.0		
Positive Control ⁴				697 ± 7.4	
Positive Control ⁶	570 ± 12.0	2442 ± 63.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	158 ± 9.5
0.03	
0.1	162 ± 15.6
0.3	166 ± 4.3
1.0	157 ± 2.6
3.3	148 ± 6.2
10.0	140 ± 14.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1041 ± 48.8
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	20 ± 2.4	16 ± 0.9	31 ± 5.8	34 ± 1.5	27 ± 2.5
0.03	19 ± 0.6	18 ± 1.2			
0.1	24 ± 2.6	19 ± 1.2	30 ± 1.8	27 ± 4.7	26 ± 2.1
0.3	20 ± 2.3	18 ± 1.7	31 ± 4.3	33 ± 2.5	32 ± 2.8
1.0	22 ± 3.8	16 ± 2.0	34 ± 7.2	35 ± 4.7	28 ± 3.3
3.3	19 ± 1.0	16 ± 1.5	37 ± 3.8	26 ± 1.5	31 ± 3.5
10.0			0 ± 0.0 ^s	6 ± 1.5 ^s	16 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1753 ± 53.2
Positive Control ³			1952 ± 54.7		
Positive Control ⁴				819 ± 7.9	
Positive Control ⁷	1945 ± 81.4	1875 ± 38.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 5.0
0.03	
0.1	32 ± 6.0
0.3	27 ± 3.2
1.0	31 ± 1.2
3.3	27 ± 2.9
10.0	32 ± 2.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1481 ± 31.7
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 ****