

Experiment Number: 229596

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ortho-nitrophenol

CAS Number: 88-21-1

Date Report Requested: 09/15/2018

Time Report Requested: 03:30:15

NTP Study Number:

229596

Study Result:

Weakly Positive

Experiment Number: 229596

Test Type: Genetic Toxicology - Bacterial
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Test Compound: Orthanilic acid

CAS Number: 88-21-1

Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	90 ± 2.0	102 ± 4.6	98 ± 2.7	87 ± 4.7	121 ± 9.0
33.0	81 ± 4.2	99 ± 2.0	72 ± 11.1	73 ± 5.8	121 ± 2.2
100.0	96 ± 7.8	101 ± 5.7	101 ± 12.8	72 ± 3.6	126 ± 12.1
333.0	91 ± 0.7	95 ± 2.0	89 ± 6.4	76 ± 3.1	121 ± 9.1
1000.0	80 ± 7.3	91 ± 7.0	84 ± 7.3	78 ± 2.1	116 ± 2.3
3333.0	85 ± 2.5	93 ± 4.6	90 ± 5.9	75 ± 0.3	127 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	290 ± 8.1	236 ± 12.8			
Positive Control ⁴			198 ± 23.4	399 ± 16.7	
Positive Control ⁵					
Positive Control ⁶					394 ± 9.3

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	77 ± 7.8	130 ± 2.4
33.0	91 ± 2.1	112 ± 11.1
100.0	110 ± 11.0	115 ± 2.0
333.0	86 ± 2.7	120 ± 2.5
1000.0	91 ± 2.7	112 ± 5.0
3333.0	84 ± 5.4	115 ± 4.0
Trial Summary	Negative	Negative
Positive Control ²	333 ± 18.8	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		357 ± 9.7
Positive Control ⁶		

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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	18 ± 3.2	8 ± 0.7	11 ± 2.0	9 ± 1.3	8 ± 0.3
33.0	16 ± 1.3	7 ± 0.3	9 ± 0.9	12 ± 1.7	9 ± 0.9
100.0	10 ± 0.3	6 ± 1.5	6 ± 1.0	7 ± 1.8	11 ± 1.5
333.0	15 ± 1.8	7 ± 1.8	9 ± 1.8	12 ± 2.1	12 ± 1.5
1000.0	16 ± 1.2	8 ± 1.5	8 ± 1.8	6 ± 1.5	11 ± 0.9
3333.0	17 ± 1.2	6 ± 0.7	5 ± 0.7	9 ± 0.6	6 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					52 ± 2.5
Positive Control ³	186 ± 9.6	56 ± 7.9			
Positive Control ⁵					
Positive Control ⁶			39 ± 2.9	58 ± 3.9	

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Test Compound: **Orthanilic acid**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	5 ± 0.0
33.0	8 ± 2.0
100.0	5 ± 1.7
333.0	8 ± 1.2
1000.0	7 ± 0.9
3333.0	7 ± 1.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	40 ± 4.2
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	103 ± 2.5	90 ± 1.7	104 ± 4.1	226 ± 10.4	155 ± 5.8
10.0					158 ± 7.3
33.0	93 ± 0.3	77 ± 8.5	104 ± 4.7	197 ± 10.2	162 ± 4.3
100.0	107 ± 15.5	77 ± 7.8	95 ± 4.9	221 ± 13.5	154 ± 12.8
333.0	85 ± 8.0	66 ± 6.8	99 ± 4.3	192 ± 5.9	159 ± 3.5
1000.0	94 ± 14.3	58 ± 2.0	105 ± 2.7	196 ± 12.5	171 ± 36.9
3333.0	109 ± 0.0	78 ± 3.5	99 ± 2.9	233 ± 22.8	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			239 ± 2.0		
Positive Control ⁷				338 ± 8.4	435 ± 3.1
Positive Control ⁸	237 ± 11.1	331 ± 27.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	107 ± 4.9	184 ± 4.5
10.0		
33.0	107 ± 3.8	209 ± 13.2
100.0	115 ± 9.7	206 ± 13.5
333.0	89 ± 5.7	209 ± 5.8
1000.0	100 ± 9.6	227 ± 10.0
3333.0	103 ± 9.2	203 ± 12.8
Trial Summary	Negative	Negative
Positive Control ⁴	475 ± 22.0	
Positive Control ⁶		
Positive Control ⁷		715 ± 12.2
Positive Control ⁸		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	19 ± 4.2	14 ± 0.9	16 ± 2.7	30 ± 0.9	20 ± 0.6
33.0	15 ± 2.1	14 ± 2.8		24 ± 1.2	19 ± 2.8
100.0	15 ± 0.9	19 ± 4.0	20 ± 4.4	24 ± 2.4	20 ± 2.0
333.0	19 ± 1.2	16 ± 2.2	18 ± 3.2	24 ± 2.1	18 ± 2.6
1000.0	19 ± 1.3	17 ± 2.6	17 ± 2.6	30 ± 3.4	19 ± 3.5
3333.0	33 ± 1.9	24 ± 2.3		35 ± 5.8	23 ± 3.8
3334.0			27 ± 0.6		
6667.0			39 ± 3.8		
Trial Summary	Equivocal	Equivocal	Weakly Positive	Negative	Negative
Positive Control ⁹					
Positive Control ²				72 ± 5.8	
Positive Control ⁵					87 ± 5.7
Positive Control ¹⁰	164 ± 12.5	143 ± 18.1	148 ± 7.2		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	32 ± 2.0	24 ± 0.6
33.0	28 ± 5.2	22 ± 2.7
100.0	24 ± 4.0	23 ± 4.1
333.0	33 ± 1.2	17 ± 1.3
1000.0	32 ± 5.5	24 ± 3.0
3333.0	31 ± 2.6	18 ± 1.9
3334.0		
6667.0		
Trial Summary	Negative	Negative
Positive Control ⁹	154 ± 9.6	
Positive Control ²		90 ± 6.4
Positive Control ⁵		
Positive Control ¹⁰		

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****