

Experiment Number: 722123

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

G06: Ames Summary Data

Test Compound: **o-Nitrobenzoic acid**

CAS Number: **552-16-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **01:09:28**

NTP Study Number:

722123

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	69 ± 2.9	97 ± 4.3	84 ± 4.9	115 ± 9.2	121 ± 5.5
100.0	85 ± 1.2	97 ± 10.8	97 ± 5.5	118 ± 0.7	116 ± 3.1
333.0	84 ± 3.8	108 ± 2.1	95 ± 5.5	127 ± 3.8	114 ± 2.7
1000.0	68 ± 9.6	122 ± 4.8	93 ± 5.0	131 ± 4.0	122 ± 3.8
3333.0	92 ± 5.2	139 ± 5.2	114 ± 5.5	162 ± 5.6	154 ± 4.7
6666.0		155 ± 11.5		187 ± 2.5	188 ± 4.0
10000.0	Toxic		163 ± 10.0 ^s		
Trial Summary	Negative	Weakly Positive	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³	269 ± 1.9				
Positive Control ⁴		925 ± 28.2	461 ± 10.1	522 ± 58.5	
Positive Control ⁵					
Positive Control ⁶					391 ± 9.8

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Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	109 ± 9.0	93 ± 6.4	96 ± 3.8	141 ± 9.0
100.0	100 ± 1.2	75 ± 11.1	108 ± 2.3	138 ± 9.6
333.0	97 ± 3.8	91 ± 7.6	111 ± 4.8	135 ± 4.8
1000.0	144 ± 5.7	88 ± 7.3	120 ± 7.5	137 ± 7.1
3333.0	163 ± 8.7	114 ± 9.8	178 ± 4.9	203 ± 7.8
6666.0	181 ± 7.3		186 ± 5.4	248 ± 18.0
10000.0		156 ± 15.5 ^s		
Trial Summary	Weakly Positive	Equivocal	Positive	Weakly Positive
Positive Control ²	2334 ± 71.2	671 ± 25.0	1673 ± 37.6	
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵				427 ± 10.7
Positive Control ⁶				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.1	9 ± 2.0	8 ± 0.6
100.0	15 ± 2.1	9 ± 0.9	6 ± 1.3
333.0	14 ± 3.6	6 ± 0.3	6 ± 1.3
1000.0	15 ± 1.3	9 ± 0.3	6 ± 1.5
3333.0	14 ± 2.7	7 ± 1.2	8 ± 5.1
10000.0	Toxic	Toxic	3 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			61 ± 3.8
Positive Control ³	114 ± 6.4		
Positive Control ⁶		89 ± 7.7	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	74 ± 6.0	94 ± 5.8	143 ± 14.7	120 ± 6.5	238 ± 27.2
100.0	69 ± 3.8	90 ± 5.5	144 ± 9.6	Toxic	254 ± 23.1
333.0	81 ± 4.6	105 ± 7.1	164 ± 4.4	131 ± 1.5	235 ± 9.6
1000.0	73 ± 5.4	79 ± 3.0	159 ± 7.6	114 ± 8.4	244 ± 3.5
3333.0	80 ± 7.2	92 ± 4.7	169 ± 3.6	129 ± 11.1	271 ± 6.5
10000.0	115 ± 10.3	41 ± 25.0 ^s	197 ± 5.3 ^s	25 ± 0.5	225 ± 6.2 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴				833 ± 25.1	726 ± 9.8
Positive Control ⁶		762 ± 5.4	926 ± 32.8		
Positive Control ⁷					
Positive Control ⁸	295 ± 21.4				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.9	14 ± 2.0	24 ± 2.2	17 ± 0.6
100.0	14 ± 1.9	16 ± 2.8	23 ± 4.9	25 ± 0.7
333.0	23 ± 1.7	18 ± 1.0	18 ± 0.3	15 ± 1.3
1000.0	23 ± 1.8	20 ± 1.2	23 ± 3.8	18 ± 0.9
3333.0	28 ± 2.7	30 ± 4.0	24 ± 3.2	23 ± 4.5
10000.0	Toxic	19 ± 2.1 ^s	Toxic	18 ± 2.7 ^s
Trial Summary	Equivocal	Equivocal	Negative	Negative
Positive Control ⁹				114 ± 6.7
Positive Control ²			238 ± 17.5	
Positive Control ¹⁰	105 ± 10.0	179 ± 6.0		

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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: 3.5 ug/Plate 9-Aminoacridine

8: 4.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

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

s: Slight Toxicity

**** END OF REPORT ****