

Experiment Number: 178197

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

G06: Ames Summary Data

Test Compound: **o-Nitroanisole**

CAS Number: **91-23-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **18:17:11**

NTP Study Number:

178197

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	128 ± 9.8	127 ± 5.1	134 ± 3.5	112 ± 14.4	128 ± 11.8
10.0					128 ± 11.0
33.0	133 ± 21.5	127 ± 8.9	122 ± 28.9	148 ± 5.5	159 ± 4.6
100.0	125 ± 25.4	129 ± 15.4	147 ± 1.8	153 ± 11.1	227 ± 17.6
166.0					
333.0	189 ± 15.7	182 ± 15.8	233 ± 3.5	247 ± 18.5	122 ± 9.8
1000.0	331 ± 9.1	336 ± 4.5	386 ± 35.7	263 ± 2.9	53 ± 42.0
1666.0		519 ± 27.6		117 ± 16.2	
3333.0	297 ± 32.2 ^s		35 ± 16.8 ^s		
Trial Summary	Positive	Positive	Positive	Positive	Equivocal
Positive Control ²			810 ± 16.7	1951 ± 28.9	2032 ± 10.1
Positive Control ³	584 ± 3.0	625 ± 16.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	126 ± 5.2
10.0	121 ± 8.8
33.0	158 ± 13.3
100.0	197 ± 17.8
166.0	268 ± 15.4
333.0	113 ± 18.8
1000.0	
1666.0	
3333.0	
Trial Summary	Positive
Positive Control ²	1711 ± 7.8
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	34 ± 2.5	22 ± 4.1	10 ± 3.6	10 ± 2.3	9 ± 2.0
10.0					7 ± 2.3
33.0	36 ± 8.7		7 ± 0.7		8 ± 2.3
100.0	32 ± 1.5	24 ± 2.6	8 ± 1.2	8 ± 1.2	11 ± 2.3
333.0	42 ± 0.9	24 ± 2.2	11 ± 1.5	10 ± 1.5	8 ± 1.0
1000.0	58 ± 2.9	36 ± 3.5	13 ± 1.3	8 ± 3.6	6 ± 4.2
1666.0		51 ± 4.1		7 ± 0.7	
3333.0	66 ± 7.8	33 ± 4.6	3 ± 2.2	2 ± 1.2	
Trial Summary	Weakly Positive	Weakly Positive	Negative	Negative	Negative
Positive Control ³	459 ± 20.4	694 ± 8.6			
Positive Control ⁴			193 ± 8.9	540 ± 12.0	486 ± 54.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.2
10.0	7 ± 0.9
33.0	7 ± 1.2
100.0	8 ± 0.0
333.0	6 ± 1.2
1000.0	1 ± 0.7
1666.0	
3333.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	704 ± 35.4

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	185 ± 5.8	186 ± 12.0	185 ± 11.7
10.0			191 ± 4.7
33.0	167 ± 11.8	183 ± 9.1	199 ± 10.0
100.0	178 ± 12.0	190 ± 4.0	193 ± 10.9
333.0	188 ± 9.3	206 ± 0.8	217 ± 13.3
1000.0	218 ± 5.3	203 ± 4.9	227 ± 12.3
3333.0	116 ± 40.2	179 ± 4.9	
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		1751 ± 209.0	1241 ± 77.4
Positive Control ⁵	2023 ± 223.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 4.1	35 ± 4.6	32 ± 2.5
10.0			25 ± 6.1
33.0	16 ± 3.5	21 ± 2.4	25 ± 3.9
100.0	17 ± 0.7	25 ± 3.0	33 ± 6.0
333.0	24 ± 4.5	32 ± 3.5	31 ± 2.7
1000.0	24 ± 1.2	31 ± 4.4	6 ± 2.3
3333.0	0 ± 0.0 ^s	7 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative
Positive Control ²		367 ± 14.4	1088 ± 14.9
Positive Control ⁶	860 ± 80.3		

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****