

Experiment Number: 935977

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

G06: Ames Summary Data

Test Compound: **2-Methyl-3-nitrobenzoic acid**

CAS Number: **1975-50-4**

Date Report Requested: **09/18/2018**

Time Report Requested: **10:13:47**

NTP Study Number:

935977

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	80 ± 0.9	90 ± 2.6	87 ± 1.8	107 ± 5.0	95 ± 4.0
100.0	85 ± 2.8	88 ± 3.3	96 ± 5.6	121 ± 2.7	83 ± 3.7
333.0	98 ± 6.5	101 ± 9.6	113 ± 0.7	120 ± 4.4	107 ± 11.5
1000.0	125 ± 4.9	146 ± 7.1	113 ± 7.4	157 ± 11.6	122 ± 10.5
3333.0	184 ± 4.2	216 ± 8.6	151 ± 10.3	194 ± 8.8	154 ± 2.4
10000.0	194 ± 97.2 ^s	Toxic	156 ± 9.9	168 ± 13.1 ^p	154 ± 7.2
Trial Summary	Positive	Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²	356 ± 25.4	289 ± 10.8			
Positive Control ³					339 ± 17.4
Positive Control ⁴			285 ± 6.2	261 ± 4.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	105 ± 5.2
100.0	107 ± 6.2
333.0	120 ± 5.5
1000.0	183 ± 3.2
3333.0	204 ± 11.1
10000.0	189 ± 3.0 ^p
Trial Summary	Weakly Positive
Positive Control ²	
Positive Control ³	483 ± 18.4
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 0.9	16 ± 1.2	30 ± 3.6	22 ± 2.9	23 ± 2.4
100.0	15 ± 2.0	18 ± 2.6	25 ± 3.2	19 ± 4.6	29 ± 0.3
333.0	29 ± 2.3	41 ± 3.5	20 ± 3.3	27 ± 2.6	39 ± 5.8
1000.0	78 ± 3.9	75 ± 7.4	26 ± 1.0	24 ± 3.2	32 ± 1.5
3333.0	169 ± 12.5	179 ± 2.8	37 ± 4.1	33 ± 2.2	50 ± 3.2
10000.0	440 ± 69.4	394 ± 20.8 ^s	54 ± 27.0	239 ± 30.4 ^s	109 ± 5.9
Trial Summary	Positive	Positive	Equivocal	Equivocal	Positive
Positive Control ⁵					105 ± 6.1
Positive Control ⁶	190 ± 5.9	183 ± 5.9			
Positive Control ³			84 ± 6.1	75 ± 5.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 2.7
100.0	28 ± 2.9
333.0	38 ± 0.9
1000.0	45 ± 1.2
3333.0	51 ± 4.9
10000.0	176 ± 24.6 ^s
Trial Summary	Positive
Positive Control ⁵	91 ± 3.2
Positive Control ⁶	
Positive Control 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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****