

Experiment Number: 570790

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3-Methyl-2-nitrobenzoic acid

CAS Number: 5437-38-7

Date Report Requested: 09/14/2018

Time Report Requested: 04:44:17

NTP Study Number:

570790

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	86 ± 7.7	102 ± 3.8	121 ± 1.5
100.0	74 ± 4.0	93 ± 6.9	104 ± 2.0
333.0	87 ± 3.3	97 ± 2.1	123 ± 3.8
1000.0	79 ± 3.0	93 ± 3.1	108 ± 2.9
3333.0	87 ± 0.7	87 ± 2.7	92 ± 3.5
10000.0	0 ± 0.0 ^s	0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²	290 ± 4.1		
Positive Control ³			301 ± 1.7
Positive Control ⁴		300 ± 9.3	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.8	8 ± 0.9	6 ± 1.3
100.0	12 ± 1.5	10 ± 0.7	8 ± 0.3
333.0	17 ± 1.9	8 ± 0.3	9 ± 0.7
1000.0	17 ± 0.3	9 ± 1.5	10 ± 0.9
3333.0	13 ± 0.3	6 ± 1.2	8 ± 2.4
5000.0	15 ± 2.6	8 ± 1.7	7 ± 2.3
Trial Summary	Negative	Negative	Negative
Positive Control ²	137 ± 9.6		
Positive Control ³			70 ± 3.8
Positive Control ⁴		75 ± 2.7	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	5 ± 0.3	11 ± 2.0	7 ± 1.3
100.0	4 ± 0.9	7 ± 1.2	8 ± 0.9
333.0	7 ± 0.6	6 ± 1.2	6 ± 2.1
1000.0	10 ± 1.5	6 ± 2.2	9 ± 2.0
3333.0	9 ± 0.6	7 ± 1.0	8 ± 1.9
5000.0	10 ± 0.9	4 ± 0.0	6 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		96 ± 7.2	83 ± 2.9
Positive Control ⁶	143 ± 4.9		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	74 ± 3.8	148 ± 9.2	102 ± 4.0
100.0	65 ± 7.0	159 ± 13.7	97 ± 7.2
333.0	75 ± 2.8	167 ± 3.1	104 ± 7.4
1000.0	71 ± 6.2	111 ± 6.7	108 ± 6.1
3333.0	70 ± 4.3	85 ± 4.3	100 ± 4.8
5000.0	35 ± 10.5	137 ± 26.4	78 ± 13.2
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		297 ± 15.3	791 ± 16.8
Positive Control ⁷	344 ± 26.9		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.5	12 ± 1.5	12 ± 1.5	19 ± 1.7	19 ± 2.1
100.0	9 ± 0.9	17 ± 3.0		20 ± 2.6	16 ± 2.7
333.0	13 ± 2.3	18 ± 2.0	22 ± 0.3	26 ± 4.2	14 ± 4.0
1000.0	25 ± 2.3	25 ± 4.7	25 ± 1.5	20 ± 1.3	22 ± 0.7
2000.0			33 ± 0.6		
3333.0	35 ± 2.0	38 ± 1.5	47 ± 2.4	28 ± 2.0	26 ± 2.1
5000.0		39 ± 2.5	41 ± 3.9		
10000.0	20 ± 19.7 ^s			0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Weakly Positive	Positive	Positive	Negative	Negative
Positive Control ⁸					96 ± 2.7
Positive Control ³				83 ± 1.2	
Positive Control ⁹	196 ± 29.1	163 ± 12.0	184 ± 10.8		

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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: 2.5 ug/Plate 2-Aminoanthracene
- 6: 4.0 ug/Plate 9-Aminoacridine
- 7: 8.0 ug/Plate 9-Aminoacridine
- 8: 0.4 ug/Plate 2-Aminoanthracene
- 9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **