

Experiment Number: 541742

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: m-Nitrobenzyl chloride

CAS Number: 619-23-8

Date Report Requested: 09/13/2018

Time Report Requested: 16:30:32

NTP Study Number:

541742

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	81 ± 3.2	100 ± 6.2	88 ± 10.7	110 ± 10.1	90 ± 3.5
3.3	86 ± 1.2	98 ± 5.5			
10.0	92 ± 11.4	90 ± 4.9	90 ± 8.7	106 ± 1.7	99 ± 7.9
33.0	136 ± 6.5	153 ± 2.3	109 ± 1.5	113 ± 10.0	125 ± 9.1
100.0	188 ± 9.1	169 ± 10.8 ^s	171 ± 12.9	166 ± 3.6	130 ± 9.8
200.0	247 ± 7.3 ^s	310 ± 14.5 ^s			
333.0			265 ± 16.2 ^s	291 ± 7.7 ^s	178 ± 4.3
666.0			351 ± 17.9 ^s	Toxic	188 ± 23.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					602 ± 13.6
Positive Control ³	254 ± 2.0	363 ± 7.4			
Positive Control ⁴			277 ± 4.8	517 ± 8.4	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	95 ± 2.6
3.3	
10.0	91 ± 6.8
33.0	98 ± 2.6
100.0	118 ± 8.1
200.0	
333.0	196 ± 7.3 ^s
666.0	Toxic
Trial Summary	Equivocal
Positive Control ²	749 ± 15.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.7	7 ± 0.0	7 ± 2.3
3.3	9 ± 2.9		
10.0	12 ± 1.2	8 ± 1.8	4 ± 0.3
33.0	9 ± 1.3	5 ± 1.3	6 ± 1.5
100.0	8 ± 1.5	7 ± 1.7	8 ± 2.4
200.0	6 ± 1.2 ^s		
333.0		7 ± 0.7 ^s	4 ± 0.9 ^s
666.0		7 ± 2.6 ^s	3 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			47 ± 2.0
Positive Control ³	87 ± 5.8		
Positive Control ⁵		33 ± 3.7	

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Test Compound: m-Nitrobenzyl chloride

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	61 ± 5.5	98 ± 9.2	101 ± 2.8	87 ± 9.5
3.3	78 ± 6.2	106 ± 5.2		
10.0	82 ± 1.2	113 ± 4.0	107 ± 7.1	73 ± 3.1
33.0	151 ± 14.6	119 ± 7.9	100 ± 4.9	80 ± 4.7
100.0	155 ± 6.2	118 ± 5.5	109 ± 7.0	79 ± 8.2
200.0	149 ± 14.1 ^s	101 ± 6.4 ^s		
333.0			33 ± 8.6 ^s	54 ± 1.3 ^s
666.0			Toxic	Toxic
Trial Summary	Positive	Negative	Negative	Negative
Positive Control ⁴				764 ± 16.4
Positive Control ⁵			332 ± 15.6	
Positive Control ⁶				
Positive Control ⁷	482 ± 26.6	2408 ± 40.3		

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Test Compound: m-Nitrobenzyl chloride

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.9	26 ± 1.0	24 ± 2.8
10.0	20 ± 1.9	25 ± 2.9	19 ± 0.6
33.0	22 ± 2.9	28 ± 5.0	23 ± 2.7
100.0	29 ± 3.6	27 ± 2.0	33 ± 3.4
333.0	32 ± 4.5 ^s	35 ± 6.6 ^s	29 ± 4.2
666.0	8 ± 2.9 ^s	21 ± 3.0 ^s	22 ± 3.1 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁸			193 ± 13.8
Positive Control ²	74 ± 4.4	251 ± 48.0	

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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: 2.0 ug/Plate 2-Aminoanthracene

6: 3.5 ug/Plate 9-Aminoacridine

7: 4.0 ug/Plate 9-Aminoacridine

8: 0.2 ug/Plate 2-Aminoanthracene

s: Slight Toxicity

**** END OF REPORT ****