

Experiment Number: 714469

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

G06: Ames Summary Data

Test Compound: **o-Nitrobenzoyl chloride**

CAS Number: **610-14-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **23:52:02**

NTP Study Number:

714469

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 ± 8.3	93 ± 5.4	102 ± 13.0	113 ± 2.1	87 ± 5.1
10.0	87 ± 5.3	92 ± 2.4	91 ± 9.8	118 ± 2.7	81 ± 11.1
33.0	127 ± 8.4	102 ± 1.5	120 ± 2.7	125 ± 5.2	99 ± 4.1
100.0	230 ± 33.3	187 ± 15.5	157 ± 14.1	195 ± 6.5	121 ± 4.9
333.0	443 ± 17.7 ^s	290 ± 4.4 ^s	294 ± 16.9	376 ± 11.5 ^s	199 ± 2.7
1000.0	348 ± 44.3 ^s	Toxic	330 ± 23.7 ^s	Toxic	384 ± 6.0 ^s
2000.0					
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					745 ± 73.6
Positive Control ³	205 ± 20.1	263 ± 9.2			
Positive Control ⁴			344 ± 3.2	461 ± 33.7	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	101 ± 4.2
10.0	97 ± 1.2
33.0	94 ± 6.7
100.0	129 ± 1.8
333.0	223 ± 6.1
1000.0	319 ± 9.0 ^s
2000.0	
Trial Summary	Positive
Positive Control ²	411 ± 18.8
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 ± 1.9	8 ± 0.9	8 ± 0.3
33.0	15 ± 1.5	8 ± 1.8	7 ± 0.7
100.0	9 ± 2.2	7 ± 1.2	7 ± 0.3
333.0	14 ± 1.2 ^s	8 ± 1.5 ^s	9 ± 1.7 ^s
1000.0	7 ± 0.7 ^s	8 ± 0.9 ^s	8 ± 0.9 ^s
2000.0	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			43 ± 3.5
Positive Control ³	47 ± 5.0		
Positive Control ⁵		131 ± 8.0	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	102 ± 9.6	66 ± 3.2	144 ± 7.8	109 ± 3.7	85 ± 5.5
10.0		93 ± 1.8		142 ± 4.5	
33.0	163 ± 1.7	136 ± 3.2	154 ± 1.2	151 ± 2.7	107 ± 0.7
100.0	264 ± 10.8	208 ± 16.9	196 ± 8.1	176 ± 11.9	172 ± 10.5
333.0	442 ± 6.4 ^S	247 ± 3.2 ^S	270 ± 7.0 ^S	247 ± 6.7 ^S	261 ± 6.4 ^S
1000.0	18 ± 2.2 ^S	12 ± 2.7 ^S	183 ± 6.9 ^S	203 ± 18.7 ^S	326 ± 17.0 ^S
2000.0	Toxic		Toxic		Toxic
Trial Summary	Positive	Positive	Weakly Positive	Positive	Positive
Positive Control ⁴					506 ± 13.0
Positive Control ⁵			608 ± 15.9	826 ± 32.1	
Positive Control ⁶	334 ± 43.1	591 ± 34.4			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	94 ± 3.2
10.0	89 ± 5.3
33.0	96 ± 7.5
100.0	163 ± 4.5
333.0	259 ± 4.0
1000.0	305 ± 25.4 ^s
2000.0	
Trial Summary	Positive
Positive Control ⁴	625 ± 38.7
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.7	10 ± 2.2	16 ± 0.9	23 ± 3.2	20 ± 3.8
10.0		20 ± 1.9		18 ± 2.6	
33.0	41 ± 1.5	35 ± 6.0	25 ± 1.5	22 ± 1.0	32 ± 0.9
100.0	108 ± 5.2	91 ± 1.2	43 ± 1.5	40 ± 5.5	43 ± 3.4
333.0	234 ± 16.0 ^s	234 ± 11.0	97 ± 1.6	69 ± 9.4	96 ± 5.5 ^s
1000.0	158 ± 9.0 ^s	316 ± 25.5 ^s	60 ± 12.3 ^s	91 ± 6.0 ^s	121 ± 13.1 ^s
2000.0	Toxic		Toxic		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁷					124 ± 9.0
Positive Control ²			120 ± 18.9	124 ± 9.3	
Positive Control ⁸	158 ± 4.8	147 ± 5.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.7
10.0	18 ± 2.0
33.0	20 ± 3.5
100.0	40 ± 7.0
333.0	79 ± 6.4
1000.0	163 ± 22.4 ^s
2000.0	
Trial Summary	Positive
Positive Control ⁷	366 ± 17.6
Positive Control ²	
Positive Control 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: 0.4 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: 4.0 ug/Plate 9-Aminoacridine

7: 0.2 ug/Plate 2-Aminoanthracene

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****