

Experiment Number: 350145

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

**G06: Ames Summary Data**

Test Compound: **m-Nitrobenzoyl chloride**

CAS Number: **121-90-4**

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

Time Report Requested: **15:23:59**

**NTP Study Number:**

350145

**Study Result:**

Positive

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Mutagenicity**G06: Ames Summary Data**Test Compound: m-Nitrobenzoyl chloride  
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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	112 ± 8.4	128 ± 2.0	94 ± 6.4	122 ± 13.3	96 ± 4.7
10.0	118 ± 12.6	138 ± 3.6	111 ± 4.8	141 ± 5.1	98 ± 3.5
33.0	151 ± 2.7	150 ± 9.1	136 ± 0.3	135 ± 8.2	112 ± 5.5
100.0	242 ± 7.7	272 ± 8.7	176 ± 0.3	221 ± 13.6	163 ± 9.7
333.0	417 ± 16.3	449 ± 10.9	390 ± 12.8	373 ± 7.2	325 ± 7.2
500.0	483 ± 11.3	461 ± 12.3	463 ± 17.7	468 ± 12.3	423 ± 3.2
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					2055 ± 43.9
Positive Control <sup>3</sup>			2765 ± 37.9	1444 ± 82.3	
Positive Control <sup>4</sup>	1134 ± 29.1	831 ± 73.0			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	110 ± 8.5
10.0	102 ± 1.3
33.0	127 ± 5.8
100.0	171 ± 5.3
333.0	346 ± 10.6
500.0	459 ± 7.4
Trial Summary	Positive
Positive Control <sup>2</sup>	1105 ± 47.4
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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 <sup>1</sup>	28 ± 2.5	39 ± 1.5	11 ± 0.7	10 ± 2.0	12 ± 0.6
10.0	33 ± 1.9	32 ± 0.6	11 ± 1.3	17 ± 1.7	12 ± 2.5
33.0	40 ± 0.9	40 ± 1.9	13 ± 2.0	18 ± 1.0	15 ± 0.6
100.0	39 ± 3.8	39 ± 0.6	20 ± 3.7	18 ± 2.7	12 ± 1.2
333.0	47 ± 7.6	48 ± 3.8	25 ± 3.6	22 ± 2.2	17 ± 4.7
500.0	48 ± 4.4 <sup>s</sup>	44 ± 3.4 <sup>s</sup>	24 ± 2.7 <sup>s</sup>	21 ± 2.3 <sup>s</sup>	17 ± 1.9 <sup>s</sup>
Trial Summary	Equivocal	Negative	Weakly Positive	Equivocal	Negative
Positive Control <sup>2</sup>					182 ± 9.6
Positive Control <sup>3</sup>			163 ± 2.7	122 ± 9.7	
Positive Control <sup>4</sup>	810 ± 20.6	955 ± 9.2			

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**G06: Ames Summary Data**

Test Compound: **m-Nitrobenzoyl chloride**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 0.3
10.0	12 ± 3.1
33.0	10 ± 1.7
100.0	16 ± 1.2
333.0	17 ± 2.2
500.0	17 ± 2.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	115 ± 4.4
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

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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 <sup>1</sup>	124 ± 4.1	104 ± 9.4	158 ± 2.4	146 ± 5.7	141 ± 5.2
10.0	120 ± 7.6	102 ± 10.2	165 ± 15.1	143 ± 0.9	147 ± 2.2
33.0	128 ± 1.3	119 ± 7.7	161 ± 14.0	154 ± 12.2	161 ± 21.7
100.0	178 ± 8.1	164 ± 6.3	209 ± 6.9	214 ± 3.0	211 ± 2.3
333.0	208 ± 10.0	256 ± 5.5	264 ± 12.2	264 ± 8.8	281 ± 7.4
500.0	258 ± 12.2 <sup>s</sup>	192 ± 26.7 <sup>s</sup>	344 ± 16.2 <sup>s</sup>	329 ± 22.6 <sup>s</sup>	372 ± 8.6 <sup>s</sup>
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					1141 ± 29.9
Positive Control <sup>3</sup>			1575 ± 46.0	1011 ± 29.8	
Positive Control <sup>5</sup>	826 ± 39.0	1092 ± 27.5			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	117 ± 7.6
10.0	139 ± 5.4
33.0	162 ± 7.3
100.0	195 ± 8.0
333.0	293 ± 6.7
500.0	326 ± 12.3 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	782 ± 8.7
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	21 ± 0.9	23 ± 1.5	38 ± 4.4	32 ± 1.5	39 ± 3.5
10.0	23 ± 0.9	15 ± 2.4	42 ± 1.3	29 ± 2.4	37 ± 4.7
33.0	22 ± 3.3	28 ± 3.2	40 ± 3.7	34 ± 1.2	34 ± 2.9
100.0	36 ± 3.2	30 ± 3.6	43 ± 2.8	38 ± 2.3	46 ± 4.8
333.0	66 ± 6.9	66 ± 5.2	75 ± 3.1	72 ± 1.0	65 ± 5.5
500.0	77 ± 3.5	77 ± 3.3	101 ± 3.0	96 ± 7.2	79 ± 2.4
Trial Summary	Positive	Positive	Positive	Positive	Weakly Positive
Positive Control <sup>2</sup>					1448 ± 27.3
Positive Control <sup>3</sup>			1919 ± 88.6	1485 ± 33.8	
Positive Control <sup>6</sup>	2255 ± 63.3	1823 ± 62.5			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	26 ± 3.2
10.0	27 ± 1.5
33.0	34 ± 2.5
100.0	35 ± 2.6
333.0	64 ± 6.8
500.0	72 ± 4.3
Trial Summary	Positive
Positive Control <sup>2</sup>	1097 ± 20.0
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	

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**LEGEND**

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***