

Experiment Number: 149051

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: p-Nitrobenzyl chloride

CAS Number: 100-14-1

Date Report Requested: 09/12/2018

Time Report Requested: 14:35:39

**NTP Study Number:**

149051

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: p-Nitrobenzyl chloride

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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 <sup>1</sup>	141 ± 10.1	108 ± 9.8	150 ± 5.5	134 ± 2.3	115 ± 6.3
3.3	163 ± 0.3	126 ± 4.9	135 ± 16.3		126 ± 7.5
10.0	183 ± 5.9	157 ± 10.4	138 ± 5.5	125 ± 11.8	130 ± 3.8
33.0	245 ± 7.7	229 ± 17.6	171 ± 2.1	166 ± 11.3	181 ± 15.2
100.0	549 ± 14.4	433 ± 9.6	302 ± 4.4	312 ± 9.1	282 ± 11.2
200.0				522 ± 22.5	
220.0	750 ± 20.5 <sup>s</sup>	484 ± 85.7 <sup>s</sup>			
275.0				866 ± 55.7 <sup>s</sup>	
333.0			826 ± 11.3 <sup>s</sup>	947 ± 54.7 <sup>s</sup>	604 ± 31.5 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					1043 ± 13.7
Positive Control <sup>3</sup>			1051 ± 36.5	734 ± 9.9	
Positive Control <sup>4</sup>	1085 ± 48.7	1181 ± 14.4			

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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>	127 ± 4.0
3.3	
10.0	118 ± 7.6
33.0	185 ± 13.4
100.0	277 ± 36.6
200.0	558 ± 28.0
220.0	
275.0	772 ± 15.4 <sup>s</sup>
333.0	827 ± 36.1 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	793 ± 32.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	21 ± 5.0	14 ± 2.2	15 ± 0.0
3.3	24 ± 2.5	12 ± 0.3	14 ± 3.0
10.0	24 ± 3.5	12 ± 1.2	16 ± 2.6
33.0	25 ± 0.7	15 ± 2.2	16 ± 0.6
100.0	21 ± 1.7	13 ± 1.5	15 ± 1.2
220.0	8 ± 2.5 <sup>s</sup>		
333.0		13 ± 2.9 <sup>s</sup>	18 ± 2.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			93 ± 6.6
Positive Control <sup>3</sup>		78 ± 3.6	
Positive Control <sup>4</sup>	803 ± 7.9		

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Test Compound: p-Nitrobenzyl chloride  
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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.9	8 ± 1.8	7 ± 0.7	12 ± 3.2	11 ± 2.6
3.3	8 ± 2.4		11 ± 2.8		7 ± 0.6
10.0	7 ± 1.2	8 ± 2.0	11 ± 0.9	9 ± 3.1	6 ± 1.5
33.0	7 ± 1.9	14 ± 1.7	10 ± 0.6	11 ± 3.0	8 ± 1.0
67.0		10 ± 1.2			
100.0	14 ± 0.6	16 ± 1.8	12 ± 3.0	12 ± 0.9	10 ± 0.6
150.0		15 ± 1.7			
200.0				18 ± 4.0	
220.0	2 ± 0.9 <sup>s</sup>	4 ± 1.2 <sup>s</sup>		19 ± 3.2	
275.0				27 ± 3.3 <sup>s</sup>	
333.0			22 ± 1.5 <sup>s</sup>		15 ± 3.3 <sup>s</sup>
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Negative
Positive Control <sup>2</sup>					102 ± 5.2
Positive Control <sup>3</sup>			87 ± 8.5	48 ± 4.3	
Positive Control <sup>5</sup>	319 ± 23.9	474 ± 52.4			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 2.9
3.3	
10.0	7 ± 1.9
33.0	8 ± 2.5
67.0	
100.0	11 ± 2.6
150.0	
200.0	16 ± 2.6
220.0	
275.0	17 ± 0.9
333.0	22 ± 0.7 <sup>s</sup>
Trial Summary	Equivocal
Positive Control <sup>2</sup>	59 ± 4.1
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>	19 ± 2.0	22 ± 2.1	26 ± 1.0	36 ± 1.3	27 ± 1.2
3.3	20 ± 1.3		24 ± 3.0		32 ± 2.0
10.0	21 ± 2.2	18 ± 2.4	30 ± 2.9	32 ± 1.5	30 ± 3.4
33.0	23 ± 0.9	26 ± 2.0	33 ± 2.5	39 ± 0.6	32 ± 2.0
100.0	34 ± 1.2	30 ± 5.6	36 ± 4.1	45 ± 3.2	43 ± 1.5
150.0		38 ± 1.9			
200.0				61 ± 2.2	
220.0	39 ± 2.2 <sup>s</sup>	14 ± 1.2 <sup>s</sup>			
275.0		Toxic		71 ± 5.5 <sup>s</sup>	
333.0			71 ± 3.8 <sup>s</sup>	61 ± 8.6 <sup>s</sup>	45 ± 0.6 <sup>s</sup>
Trial Summary	Equivocal	Negative	Positive	Weakly Positive	Equivocal
Positive Control <sup>2</sup>					907 ± 59.6
Positive Control <sup>3</sup>			955 ± 39.9	443 ± 24.7	
Positive Control <sup>6</sup>	1366 ± 18.1	1363 ± 113.8			

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 5.6
3.3	
10.0	32 ± 1.0
33.0	32 ± 3.3
100.0	44 ± 2.2
150.0	
200.0	62 ± 4.0
220.0	
275.0	71 ± 3.8
333.0	63 ± 3.5 <sup>s</sup>
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	587 ± 35.5
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: 80.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

\*\* END OF REPORT \*\*