

Experiment Number: 684822

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: n-Butyl chloride

CAS Number: 109-69-3

Date Report Requested: 09/13/2018

Time Report Requested: 01:31:06

**NTP Study Number:**

684822

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: n-Butyl chloride

CAS Number: 109-69-3

Date Report Requested: 09/13/2018

Time Report Requested: 01:31:06

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>		157 ± 4.3	144 ± 8.6	172 ± 1.5	
Vehicle Control <sup>2</sup>	119 ± 7.4				175 ± 0.9
0.1		125 ± 2.2	147 ± 28.3	143 ± 6.3	
0.5			133 ± 2.3	145 ± 10.5	
1.0		161 ± 6.6	124 ± 4.5	134 ± 5.7	
2.0		121 ± 5.8	102 ± 7.5	109 ± 5.4	
4.0		7 ± 3.9 <sup>s</sup>			
100.0	135 ± 9.9				161 ± 5.8
333.0	129 ± 15.2				164 ± 8.5
1000.0	139 ± 14.2				170 ± 7.9
3333.0	103 ± 5.4				158 ± 4.5
10000.0	18 ± 8.8 <sup>s</sup>				147 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>				480 ± 9.0	
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					
Positive Control <sup>7</sup>					440 ± 26.1
Positive Control <sup>8</sup>		983 ± 48.6	1569 ± 21.7		
Positive Control <sup>9</sup>	955 ± 37.8				

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	142 ± 9.5	151 ± 10.5		165 ± 6.0
Vehicle Control <sup>2</sup>			163 ± 12.0	
0.1	158 ± 3.0	163 ± 5.0		136 ± 15.6
0.5		187 ± 11.6		
1.0	148 ± 4.2	137 ± 13.1		158 ± 9.7
2.0	120 ± 4.4	116 ± 5.3		137 ± 15.7
4.0	0 ± 0.0 <sup>s</sup>			0 ± 0.0 <sup>s</sup>
100.0			149 ± 7.8	
333.0			141 ± 15.7	
1000.0			176 ± 5.8	
3333.0			165 ± 8.2	
10000.0			123 ± 4.1	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>		1070 ± 19.5		
Positive Control <sup>4</sup>				843 ± 24.8
Positive Control <sup>5</sup>			837 ± 39.5	
Positive Control <sup>6</sup>	463 ± 58.0			
Positive Control <sup>7</sup>				
Positive Control <sup>8</sup>				
Positive Control <sup>9</sup>				

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>		11 ± 1.9	14 ± 1.2	9 ± 1.9	
Vehicle Control <sup>2</sup>	14 ± 0.9				18 ± 3.0
0.1			16 ± 2.7	13 ± 3.0	
0.5		12 ± 1.5	11 ± 2.3	16 ± 1.2	
1.0		12 ± 2.6	15 ± 3.5	14 ± 2.6	
2.0		12 ± 1.9	14 ± 2.0	9 ± 2.0	
3.0		7 ± 2.1			
100.0	17 ± 1.5				14 ± 0.9
333.0	13 ± 1.5				16 ± 3.0
1000.0	13 ± 0.9				18 ± 0.7
3333.0	9 ± 0.9				13 ± 1.7
6666.0	4 ± 0.7 <sup>s</sup>				8 ± 2.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>7</sup>					
Positive Control <sup>6</sup>				80 ± 6.6	
Positive Control <sup>9</sup>	958 ± 34.3				
Positive Control <sup>10</sup>					105 ± 3.6
Positive Control <sup>8</sup>		976 ± 17.7	1671 ± 41.8		

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## Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 3.2	10 ± 1.5		11 ± 4.2
Vehicle Control <sup>2</sup>			10 ± 1.9	
0.1		14 ± 1.5		
0.5	15 ± 1.2	14 ± 0.0		20 ± 0.9
1.0	20 ± 2.5	16 ± 1.7		16 ± 2.3
2.0	14 ± 3.8	13 ± 2.5		18 ± 1.5
3.0	10 ± 1.5			11 ± 0.6
100.0			13 ± 4.7	
333.0			10 ± 3.5	
1000.0			13 ± 0.9	
3333.0			10 ± 0.3	
6666.0			2 ± 2.0 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>		134 ± 10.2		459 ± 21.2
Positive Control <sup>7</sup>			607 ± 16.8	
Positive Control <sup>6</sup>	90 ± 6.4			
Positive Control <sup>9</sup>				
Positive Control <sup>10</sup>				
Positive Control <sup>8</sup>				

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>2</sup>	206 ± 9.5				230 ± 5.8
Vehicle Control <sup>1</sup>		149 ± 13.5	208 ± 17.2	227 ± 2.6	
0.1			185 ± 7.3	224 ± 3.5	
0.5		171 ± 8.7	198 ± 15.3	199 ± 12.0	
1.0		140 ± 6.8	195 ± 6.7	203 ± 8.1	
2.0		37 ± 9.8	130 ± 24.0	118 ± 9.6	
3.0		43 ± 0.9			
100.0	213 ± 4.6				233 ± 4.2
333.0	194 ± 5.5				233 ± 1.7
1000.0	181 ± 5.5				216 ± 6.7
3333.0	179 ± 3.8				223 ± 6.3
6666.0	155 ± 25.4 <sup>s</sup>				186 ± 1.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>				321 ± 6.5	
Positive Control <sup>5</sup>					
Positive Control <sup>7</sup>					442 ± 3.5
Positive Control <sup>11</sup>		659 ± 31.6	978 ± 54.7		
Positive Control <sup>12</sup>	742 ± 42.2				

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## G06: Ames Summary Data

Test Compound: n-Butyl chloride

CAS Number: 109-69-3

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## Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>2</sup>			212 ± 8.1	
Vehicle Control <sup>1</sup>	166 ± 20.1	213 ± 8.5		140 ± 6.8
0.1		210 ± 2.7		
0.5	186 ± 9.7	195 ± 4.5		168 ± 15.0
1.0	143 ± 6.5	178 ± 22.9		172 ± 8.5
2.0	91 ± 4.5	122 ± 18.5		105 ± 22.3
3.0	115 ± 19.5			104 ± 17.6
100.0			230 ± 2.9	
333.0			208 ± 4.3	
1000.0			194 ± 11.7	
3333.0			143 ± 3.2 <sup>s</sup>	
6666.0			142 ± 4.7 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>		506 ± 3.8		564 ± 15.9
Positive Control <sup>4</sup>	416 ± 10.7			
Positive Control <sup>5</sup>			436 ± 2.2	
Positive Control <sup>7</sup>				
Positive Control <sup>11</sup>				
Positive Control <sup>12</sup>				

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>		30 ± 1.3	34 ± 2.8	36 ± 3.2	
Vehicle Control <sup>2</sup>	36 ± 4.0				42 ± 6.5
0.1		27 ± 0.9	31 ± 4.4	41 ± 0.3	
0.5			34 ± 2.2	37 ± 5.2	
1.0		29 ± 4.3	43 ± 3.8	38 ± 0.3	
2.0		29 ± 0.0	34 ± 4.1	42 ± 2.1	
4.0		11 ± 1.8			
100.0	36 ± 1.8				49 ± 3.2
333.0	31 ± 3.7				39 ± 0.9
1000.0	27 ± 4.4				31 ± 4.7
3333.0	25 ± 3.0				27 ± 5.5
10000.0	22 ± 5.2 <sup>s</sup>				17 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>				334 ± 11.4	
Positive Control <sup>5</sup>					168 ± 3.5
Positive Control <sup>13</sup>		483 ± 12.3	557 ± 17.4		
Positive Control <sup>14</sup>	677 ± 20.6				



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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 4.8	44 ± 5.5		22 ± 3.3
Vehicle Control <sup>2</sup>			45 ± 3.3	
0.1	36 ± 3.8	42 ± 2.8		31 ± 3.3
0.5		36 ± 4.7		
1.0	39 ± 4.1	47 ± 2.2		42 ± 4.7
2.0	29 ± 4.6	45 ± 2.3		33 ± 3.2
4.0	0 ± 0.0 <sup>s</sup>			0 ± 0.0 <sup>s</sup>
100.0			35 ± 5.5	
333.0			32 ± 3.5	
1000.0			43 ± 5.2	
3333.0			28 ± 2.7	
10000.0			26 ± 2.6 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Equivocal
Positive Control <sup>3</sup>		845 ± 36.9		
Positive Control <sup>4</sup>	120 ± 7.5			657 ± 47.6
Positive Control <sup>5</sup>			770 ± 11.3	
Positive Control <sup>13</sup>				
Positive Control <sup>14</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: 4-Nitro-o-Phenylenediamine
  - 2: Vehicle Control: Dimethyl Sulfoxide
  - 3: 0.5 mL/Chamber 2-Aminoanthracene
  - 4: 1.0 mL/Chamber 2-Aminoanthracene
  - 5: 1.0 ug/Plate 2-Aminoanthracene
  - 6: 2.5 mL/Chamber 2-Aminoanthracene
  - 7: 2.5 ug/Plate 2-Aminoanthracene
  - 8: 5.0 mL/Chamber Sodium Azide
  - 9: 5.0 ug/Plate Sodium Azide
  - 10: 5.0 ug/Plate 2-Aminoanthracene
  - 11: 50.0 mL/Chamber 9-Aminoacridine
  - 12: 50.0 ug/Plate 9-Aminoacridine
  - 13: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine
  - 14: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

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