

Experiment Number: 961999

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

**G06: Ames Summary Data**

Test Compound: **2-Chloroacetophenone (CN)**

CAS Number: 532-27-4

Date Report Requested: 09/17/2018

Time Report Requested: 21:35:29

**NTP Study Number:**

961999

**Study Result:**

Negative

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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>	105 ± 8.5	88 ± 0.6	133 ± 1.0	113 ± 7.6	122 ± 10.1
0.1	126 ± 11.8				
0.3	118 ± 3.1	111 ± 12.7			
1.0	145 ± 12.4	112 ± 6.4	127 ± 9.0		
3.0	137 ± 4.9	113 ± 10.1	123 ± 10.3	122 ± 11.1	139 ± 0.9
10.0	145 ± 13.5	131 ± 9.3	135 ± 9.9	124 ± 9.2	141 ± 1.3
33.0		Toxic	146 ± 6.8	138 ± 2.2	137 ± 14.2
100.0			153 ± 3.8	127 ± 4.0	159 ± 6.4
333.0				Toxic	80 ± 40.3 <sup>s</sup>
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>			717 ± 159.7	518 ± 13.3	1567 ± 87.1
Positive Control <sup>3</sup>	418 ± 10.1	292 ± 25.8			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	91 ± 11.3
0.1	
0.3	
1.0	107 ± 4.9
3.0	123 ± 10.0
10.0	111 ± 12.9
33.0	120 ± 10.7
100.0	115 ± 17.3
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1007 ± 48.7
Positive Control <sup>3</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>	29 ± 3.8	20 ± 4.4	9 ± 2.0	9 ± 1.7	12 ± 1.9
0.1	28 ± 3.6				
0.3	25 ± 6.5	24 ± 5.2			
1.0	33 ± 2.7	22 ± 2.3	9 ± 3.7		
3.0	25 ± 2.3	17 ± 1.5	10 ± 2.1	9 ± 3.2	9 ± 3.0
10.0	18 ± 1.3	9 ± 2.0	9 ± 1.7	8 ± 2.2	7 ± 0.3
33.0		Toxic	12 ± 1.3	10 ± 2.5	11 ± 2.8
100.0			10 ± 2.6	6 ± 1.8	6 ± 0.9
333.0				Toxic	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	561 ± 17.6	342 ± 28.3			
Positive Control <sup>4</sup>			181 ± 29.5	169 ± 11.6	484 ± 13.0

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.4
0.1	
0.3	
1.0	10 ± 2.7
3.0	9 ± 2.6
10.0	6 ± 1.3
33.0	8 ± 0.7
100.0	8 ± 3.8
333.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	461 ± 24.5

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Test Compound: 2-Chloroacetophenone (CN)

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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>	6 ± 0.9	3 ± 0.3	11 ± 2.1	6 ± 3.0	11 ± 1.8
0.1	8 ± 2.6				
0.3	6 ± 1.7	4 ± 1.2			
1.0	8 ± 1.3	5 ± 1.8	11 ± 3.5		
3.0	6 ± 1.2	3 ± 0.6	12 ± 2.5	7 ± 1.0	13 ± 0.0
10.0	7 ± 0.7	5 ± 0.9	9 ± 2.6	8 ± 1.5	8 ± 2.0
33.0		Toxic	9 ± 3.0	10 ± 1.0	6 ± 0.7
100.0			5 ± 2.1	7 ± 2.2	9 ± 1.9
333.0				Toxic	5 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			115 ± 11.2	115 ± 12.4	410 ± 9.2
Positive Control <sup>5</sup>	222 ± 69.7	124 ± 9.3			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.0
0.1	
0.3	
1.0	7 ± 1.8
3.0	9 ± 1.5
10.0	5 ± 0.3
33.0	7 ± 2.6
100.0	7 ± 0.6
333.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	162 ± 7.8
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>	16 ± 2.3	15 ± 1.2	30 ± 0.9	30 ± 4.9	33 ± 4.3
0.1	11 ± 1.0				
0.3	15 ± 1.0	18 ± 1.9			
1.0	12 ± 1.7	12 ± 2.2	30 ± 4.6		
3.0	13 ± 3.2	17 ± 0.3	33 ± 1.9	29 ± 4.3	26 ± 3.0
10.0	15 ± 0.9	21 ± 5.4	34 ± 2.9	37 ± 2.3	35 ± 4.5
33.0		Toxic	36 ± 2.4	35 ± 1.5	32 ± 4.1
100.0			26 ± 3.8	27 ± 4.5	34 ± 6.3
333.0				Toxic	21 ± 5.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			445 ± 115.4	389 ± 47.8	1440 ± 143.0
Positive Control <sup>6</sup>	845 ± 25.8	637 ± 62.7			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 1.2
0.1	
0.3	
1.0	32 ± 0.7
3.0	30 ± 3.5
10.0	33 ± 1.7
33.0	33 ± 2.6
100.0	35 ± 0.3
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	990 ± 51.5
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

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