

Experiment Number: 468840

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 4-(Chloroacetyl)acetanilide

CAS Number: 140-49-8

Date Report Requested: 09/11/2018

Time Report Requested: 11:01:52

**NTP Study Number:**

468840

**Study Result:**

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	123 ± 6.4	147 ± 9.0	119 ± 2.5
1.0	116 ± 4.8		
3.3	125 ± 7.1	153 ± 7.8	121 ± 7.3
10.0	108 ± 9.9	154 ± 11.2	115 ± 6.1
33.0	122 ± 3.8	162 ± 4.4	123 ± 5.8
67.0	5 ± 0.9 <sup>s</sup>		
100.0		167 ± 4.0	158 ± 5.2
200.0		44 ± 17.6 <sup>s</sup>	81 ± 8.0 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal
Positive Control <sup>2</sup>	362 ± 11.7		
Positive Control <sup>3</sup>			486 ± 11.9
Positive Control <sup>4</sup>		867 ± 21.0	

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## Strain: TA1538

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 1.7	18 ± 2.6	11 ± 1.0	11 ± 0.3
10.0	11 ± 2.1	12 ± 1.2	18 ± 2.5	21 ± 1.3
20.0	10 ± 0.3			
33.0	7 ± 0.6	12 ± 2.5	22 ± 0.9	18 ± 3.8
45.0	0 ± 0.0 <sup>s</sup>			
67.0	Toxic	17 ± 4.1	26 ± 2.0	29 ± 5.7
100.0		25 ± 4.0	71 ± 10.3	68 ± 0.6
150.0		20 ± 4.4 <sup>s</sup>	77 ± 13.4 <sup>s</sup>	58 ± 2.9 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Positive
Positive Control <sup>5</sup>			137 ± 5.8	84 ± 3.1
Positive Control <sup>3</sup>		136 ± 9.8		
Positive Control <sup>6</sup>	261 ± 5.9			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	15 ± 1.0	13 ± 1.5	12 ± 0.6	26 ± 1.7	24 ± 1.3
1.0	15 ± 2.4				
3.3	14 ± 1.7			18 ± 0.9	
10.0	18 ± 2.2	16 ± 2.0	16 ± 1.8	22 ± 2.0	32 ± 2.8
20.0		20 ± 1.9	23 ± 3.8		
33.0	34 ± 2.0	42 ± 5.6	27 ± 0.3	25 ± 3.0	32 ± 0.7
45.0		15 ± 4.6	1 ± 0.3 <sup>s</sup>		
67.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	Toxic		35 ± 5.0
100.0				32 ± 2.1	41 ± 4.1
150.0					49 ± 1.8
200.0				11 ± 0.9 <sup>s</sup>	
Trial Summary	Equivocal	Equivocal	Weakly Positive	Negative	Equivocal
Positive Control <sup>5</sup>					
Positive Control <sup>3</sup>				181 ± 8.8	138 ± 5.7
Positive Control <sup>6</sup>	118 ± 8.2	224 ± 14.5	175 ± 13.0		

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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 3.3	28 ± 3.5	25 ± 5.5	28 ± 1.9
1.0				
3.3		28 ± 3.7		
10.0	25 ± 0.9	27 ± 4.7	29 ± 2.7	21 ± 4.9
20.0				
33.0	26 ± 4.4	32 ± 5.5	37 ± 1.8	31 ± 5.0
45.0				
67.0	32 ± 3.5		41 ± 3.6	41 ± 3.2
100.0	27 ± 2.2	94 ± 12.7	74 ± 3.0	64 ± 6.2
150.0	21 ± 3.8 <sup>s</sup>		53 ± 5.6 <sup>s</sup>	63 ± 2.9 <sup>s</sup>
200.0		31 ± 11.8 <sup>s</sup>		
Trial Summary	Negative	Equivocal	Weakly Positive	Positive
Positive Control <sup>5</sup>		72 ± 6.3	97 ± 7.4	120 ± 11.4
Positive Control <sup>3</sup>	131 ± 6.7			
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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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