

Experiment Number: 658866

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Chlorobenzaldehyde

CAS Number: 89-98-5

Date Report Requested: 09/11/2018

Time Report Requested: 11:16:13

**NTP Study Number:**

658866

**Study Result:**

Negative

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Test Compound: 2-Chlorobenzaldehyde  
CAS Number: 89-98-5

Date Report Requested: 09/11/2018

Time Report Requested: 11:16:13

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	101 ± 3.0	89 ± 8.5	84 ± 1.8	103 ± 5.2	87 ± 2.5
3.3		78 ± 4.6			
10.0	76 ± 2.7	80 ± 1.3	88 ± 4.4	106 ± 11.3	98 ± 4.5
33.0	94 ± 3.5	91 ± 3.5	86 ± 8.5	103 ± 6.8	88 ± 7.2
100.0	85 ± 5.8	87 ± 1.8	93 ± 9.8	99 ± 7.8	85 ± 5.5
200.0		70 ± 3.6			
333.0	8 ± 6.5 <sup>s</sup>		74 ± 5.1	109 ± 2.3	83 ± 5.5 <sup>s</sup>
500.0			62 ± 6.9 <sup>s</sup>		59 ± 2.5 <sup>s</sup>
666.0	Toxic			69 ± 4.6 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					517 ± 20.5
Positive Control <sup>3</sup>	495 ± 24.7	297 ± 5.9			
Positive Control <sup>4</sup>			292 ± 5.0		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				775 ± 34.9	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	82 ± 5.2
3.3	
10.0	109 ± 2.8
33.0	96 ± 4.0
100.0	109 ± 7.9
200.0	
333.0	107 ± 2.7
500.0	
666.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	363 ± 13.6
Positive Control <sup>6</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 1.8	16 ± 5.2	10 ± 1.9	12 ± 1.2	8 ± 0.9
3.3	18 ± 2.6	13 ± 2.6			
10.0	16 ± 1.9	12 ± 2.1	9 ± 0.3	11 ± 0.6	7 ± 2.0
33.0	15 ± 1.5	11 ± 2.2	11 ± 2.2	15 ± 2.6	10 ± 1.5
100.0	15 ± 3.2	14 ± 1.5	10 ± 0.0	10 ± 2.5	12 ± 2.0
200.0	17 ± 0.3	14 ± 1.7			
333.0			9 ± 2.3	10 ± 1.2	10 ± 2.0
500.0			7 ± 1.2 <sup>s</sup>	11 ± 1.2 <sup>s</sup>	4 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					58 ± 5.2
Positive Control <sup>3</sup>	279 ± 9.8	222 ± 14.0			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			122 ± 16.8	169 ± 3.8	

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Test Compound: 2-Chlorobenzaldehyde

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 2.0
3.3	
10.0	13 ± 2.3
33.0	8 ± 1.2
100.0	10 ± 1.5
200.0	
333.0	10 ± 1.5
500.0	9 ± 1.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	76 ± 3.8
Positive Control <sup>6</sup>	

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**G06: Ames Summary Data**

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 2.7	9 ± 2.4	16 ± 0.0
3.3	5 ± 0.6		
10.0	9 ± 0.9	9 ± 2.3	12 ± 1.9
33.0	8 ± 1.5	14 ± 2.3	11 ± 0.0
100.0	9 ± 1.2	10 ± 2.5	10 ± 1.2
200.0	8 ± 3.5		
333.0		10 ± 1.5	10 ± 1.7
500.0		9 ± 2.0 <sup>s</sup>	9 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>7</sup>		52 ± 4.3	91 ± 8.5
Positive Control <sup>8</sup>	30 ± 6.1		

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	95 ± 1.3	84 ± 7.2	123 ± 7.2	212 ± 5.8	111 ± 0.7
3.3	90 ± 3.7	74 ± 4.2			
10.0	84 ± 6.0	73 ± 2.7	114 ± 7.5	187 ± 0.6	107 ± 6.7
33.0	92 ± 3.5	84 ± 11.5	127 ± 6.4	189 ± 6.2	96 ± 7.4
100.0	83 ± 3.8	83 ± 1.9	107 ± 9.6	212 ± 4.6	107 ± 7.2
200.0	77 ± 5.8	64 ± 0.7			
333.0			89 ± 5.7	170 ± 10.1	115 ± 3.8
500.0			80 ± 5.2 <sup>s</sup>	130 ± 6.4 <sup>s</sup>	62 ± 13.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					450 ± 10.3
Positive Control <sup>6</sup>			753 ± 10.6		
Positive Control <sup>7</sup>				431 ± 15.9	
Positive Control <sup>9</sup>	247 ± 44.3	280 ± 19.9			

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G06: Ames Summary Data  
Test Compound: 2-Chlorobenzaldehyde  
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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	240 ± 11.9
3.3	
10.0	216 ± 4.2
33.0	200 ± 19.2
100.0	225 ± 9.8
200.0	
333.0	208 ± 5.3
500.0	130 ± 9.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	558 ± 15.2
Positive Control <sup>9</sup>	



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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 2.1	17 ± 0.7	29 ± 4.6	25 ± 2.5	30 ± 3.0
3.3		19 ± 2.4			
10.0	20 ± 3.2	15 ± 1.5	21 ± 1.9	22 ± 1.0	26 ± 2.0
33.0	22 ± 3.2	18 ± 2.3	25 ± 1.5	25 ± 2.7	21 ± 4.7
100.0	20 ± 2.1	15 ± 2.2	26 ± 5.4	26 ± 3.3	25 ± 1.9
200.0		18 ± 3.1			
333.0	Toxic		28 ± 1.0	26 ± 1.8	21 ± 0.6
500.0			13 ± 0.6 <sup>s</sup>		13 ± 2.0 <sup>s</sup>
666.0	Toxic			11 ± 2.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					134 ± 9.0
Positive Control <sup>2</sup>			149 ± 7.0		
Positive Control <sup>5</sup>				255 ± 9.3	
Positive Control <sup>11</sup>	168 ± 2.6	226 ± 7.3			

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 3.9
3.3	
10.0	29 ± 4.5
33.0	32 ± 2.0
100.0	32 ± 7.0
200.0	
333.0	36 ± 2.0
500.0	
666.0	35 ± 2.1 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	84 ± 2.6
Positive Control <sup>5</sup>	
Positive Control <sup>11</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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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