

Experiment Number: 313686

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

**G06: Ames Summary Data**

Test Compound: **Chlorobenzilate**

CAS Number: **510-15-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:12:11**

**NTP Study Number:**

313686

**Study Result:**

Negative

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Chlorobenzilate

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Date Report Requested: 09/12/2018

Time Report Requested: 04:12:11

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	119 ± 6.4	79 ± 2.5	116 ± 7.0	121 ± 4.1	88 ± 1.2
1.0			106 ± 5.0		
3.0			98 ± 6.5		
10.0			111 ± 3.2		
33.0			102 ± 1.8		
33.3		72 ± 5.5			94 ± 5.8
100.0	114 ± 12.3	68 ± 7.2	98 ± 9.3	125 ± 1.5	87 ± 12.1
333.3	96 ± 4.2	49 ± 5.4		90 ± 7.0	77 ± 2.2
1000.0	48 ± 1.5	40 ± 6.7		72 ± 7.8	62 ± 6.7
3333.3	44 ± 5.8	30 ± 3.4 <sup>P</sup>		63 ± 2.0 <sup>S</sup>	50 ± 5.0 <sup>P</sup>
10000.0	57 ± 2.9 <sup>P</sup>			58 ± 1.5 <sup>S</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	250 ± 4.4	495 ± 3.2	343 ± 9.8		
Positive Control <sup>3</sup>				885 ± 24.6	925 ± 55.2

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	106 ± 8.8	121 ± 8.6	99 ± 5.8	113 ± 12.1
1.0	128 ± 7.6			120 ± 8.4
3.0	120 ± 8.2			118 ± 13.0
10.0	117 ± 9.3			114 ± 4.0
33.0	98 ± 5.0			113 ± 10.6
33.3			116 ± 3.4	
100.0	117 ± 3.8	144 ± 3.5	106 ± 8.7	134 ± 15.3
333.3		99 ± 15.5	104 ± 4.0	
1000.0		81 ± 8.7	72 ± 5.1	
3333.3		56 ± 6.2 <sup>s</sup>	53 ± 3.9 <sup>s</sup>	
10000.0		34 ± 4.4 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>				
Positive Control <sup>3</sup>	571 ± 39.1	2559 ± 112.3	1603 ± 50.7	1802 ± 54.8

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Chlorobenzilate

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	16 ± 0.7	12 ± 2.3	9 ± 1.7	8 ± 2.3	7 ± 2.6
100.0	14 ± 1.2	13 ± 2.3	8 ± 0.3	9 ± 1.2	9 ± 2.0
333.3	15 ± 3.2	12 ± 3.3	7 ± 2.4	7 ± 0.9	6 ± 0.9
1000.0	17 ± 1.9	12 ± 0.9	6 ± 0.7	9 ± 2.3	6 ± 0.9
3333.3	19 ± 4.9	15 ± 1.2 <sup>p</sup>	8 ± 1.3	7 ± 1.5 <sup>p</sup>	6 ± 1.5
10000.0	18 ± 1.2 <sup>p</sup>	16 ± 1.7 <sup>p</sup>	6 ± 1.8 <sup>p</sup>	7 ± 1.2 <sup>p</sup>	5 ± 1.9 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	148 ± 11.3	235 ± 9.5			
Positive Control <sup>4</sup>			328 ± 24.0	450 ± 2.6	571 ± 49.3

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

**G06: Ames Summary Data**

Test Compound: **Chlorobenzilate**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 1.5
100.0	6 ± 1.2
333.3	6 ± 0.9
1000.0	5 ± 0.6
3333.3	5 ± 1.2 <sup>p</sup>
10000.0	4 ± 0.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	442 ± 5.8

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Test Compound: Chlorobenzilate

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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>	5 ± 1.5	6 ± 1.0	9 ± 3.0	12 ± 0.0	7 ± 0.9
100.0	8 ± 2.8	6 ± 1.2	5 ± 1.5	7 ± 0.7	8 ± 3.0
333.3	5 ± 0.6	5 ± 0.9	7 ± 1.3	6 ± 1.5	4 ± 1.0
1000.0	4 ± 0.3	4 ± 1.0	4 ± 2.0	5 ± 1.3	4 ± 1.9
3333.3	4 ± 1.0	5 ± 0.3 <sup>p</sup>	6 ± 1.2	5 ± 0.6 <sup>p</sup>	3 ± 0.6
10000.0	9 ± 2.0 <sup>p</sup>	4 ± 0.3 <sup>p</sup>	3 ± 1.0 <sup>p</sup>	4 ± 0.3 <sup>p</sup>	4 ± 0.7 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			226 ± 3.1	247 ± 17.8	459 ± 3.0
Positive Control <sup>5</sup>	193 ± 54.9	602 ± 47.8			

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Date Report Requested: 09/12/2018  
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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 3.7
100.0	6 ± 2.3
333.3	9 ± 0.7
1000.0	5 ± 0.3
3333.3	3 ± 0.7 <sup>P</sup>
10000.0	3 ± 0.3 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	364 ± 18.5
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Chlorobenzilate

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	37 ± 8.6	21 ± 2.1	20 ± 3.8	39 ± 3.0	29 ± 0.6
1.0			29 ± 1.9		
3.0			25 ± 1.0		
10.0			21 ± 3.5		
33.0			18 ± 0.3		
33.3		17 ± 0.7			24 ± 3.8
100.0	20 ± 2.5	17 ± 0.9	12 ± 2.8	28 ± 1.2	22 ± 4.7
333.3	18 ± 1.5	13 ± 1.8		16 ± 0.6	19 ± 2.6
1000.0	17 ± 1.8	16 ± 1.0		15 ± 2.0	25 ± 0.7
3333.3	20 ± 3.7	10 ± 1.3 <sup>P</sup>		16 ± 4.1 <sup>S</sup>	16 ± 2.0 <sup>P</sup>
10000.0	19 ± 1.2 <sup>P</sup>			10 ± 1.5 <sup>S</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>				635 ± 30.4	572 ± 29.6
Positive Control <sup>6</sup>	723 ± 22.6	825 ± 43.6	673 ± 21.1		



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## Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 2.9	39 ± 3.3	30 ± 1.5	30 ± 2.0
1.0	36 ± 3.5			32 ± 4.2
3.0	33 ± 1.5			31 ± 6.7
10.0	29 ± 3.5			34 ± 2.1
33.0	31 ± 3.2			26 ± 2.7
33.3			24 ± 3.8	
100.0	25 ± 3.5	34 ± 4.5	28 ± 5.0	28 ± 2.2
333.3		21 ± 2.0	18 ± 2.0	
1000.0		20 ± 2.6	14 ± 2.5	
3333.3		13 ± 1.3 <sup>s</sup>	12 ± 2.7 <sup>s</sup>	
10000.0		11 ± 1.2 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	448 ± 22.1	2148 ± 234.8	1443 ± 61.4	1652 ± 43.7
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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