

Experiment Number: 332603

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

**G06: Ames Summary Data**

Test Compound: **4-Chloro-m-cresol**

CAS Number: **59-50-7**

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

Time Report Requested: **21:51:48**

**NTP Study Number:**

332603

**Study Result:**

Negative

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CAS Number: 59-50-7

Date Report Requested: 09/12/2018

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## 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>	113 ± 6.4	84 ± 4.5	90 ± 2.5	115 ± 8.1	81 ± 0.9
3.3	102 ± 7.8	95 ± 2.3	77 ± 1.2		75 ± 1.7
10.0	105 ± 3.2	83 ± 4.4	75 ± 4.2	121 ± 0.9	82 ± 4.7
33.0	103 ± 3.5	86 ± 5.9	85 ± 2.4	123 ± 7.2	100 ± 11.5
100.0	111 ± 6.2	81 ± 2.9	78 ± 8.8	136 ± 3.2	85 ± 5.6
200.0	103 ± 6.5 <sup>s</sup>	74 ± 1.8			
333.0			71 ± 9.5 <sup>s</sup>	122 ± 10.0	65 ± 4.6 <sup>s</sup>
666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					456 ± 15.0
Positive Control <sup>3</sup>	313 ± 3.7	374 ± 8.0			
Positive Control <sup>4</sup>			299 ± 4.0		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				802 ± 11.7	

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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>	111 ± 2.3
3.3	
10.0	117 ± 7.8
33.0	112 ± 8.8
100.0	119 ± 0.7
200.0	
333.0	118 ± 5.4
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>	461 ± 22.9
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>	15 ± 1.5	18 ± 0.3	11 ± 1.5	12 ± 1.5	7 ± 1.9
3.3	13 ± 0.7	16 ± 1.7	7 ± 0.7		11 ± 2.0
10.0	17 ± 1.2	14 ± 0.7	12 ± 2.3	12 ± 2.0	9 ± 1.5
33.0	19 ± 2.5	20 ± 2.4	8 ± 0.7	13 ± 1.3	13 ± 3.2
100.0	15 ± 2.0	23 ± 2.0	7 ± 1.7	14 ± 1.5	13 ± 1.2
200.0	15 ± 2.4	12 ± 0.9			
333.0			9 ± 1.8 <sup>s</sup>	11 ± 2.3	13 ± 0.9
500.0				4 ± 1.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					42 ± 2.5
Positive Control <sup>3</sup>	237 ± 11.5	246 ± 8.0			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			86 ± 9.5	156 ± 8.7	

Experiment Number: 332603

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**G06: Ames Summary Data**

Test Compound: 4-Chloro-m-cresol

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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>	16 ± 1.5
3.3	
10.0	7 ± 0.3
33.0	11 ± 3.3
100.0	11 ± 3.0
200.0	
333.0	12 ± 0.6
500.0	14 ± 3.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	77 ± 3.5
Positive Control <sup>6</sup>	

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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>	7 ± 1.2	7 ± 1.7	10 ± 1.2
3.3	6 ± 0.9		
10.0	5 ± 1.5	9 ± 2.0	10 ± 1.5
33.0	9 ± 1.5	8 ± 2.3	12 ± 2.0
100.0	7 ± 0.9	11 ± 1.2	8 ± 2.4
200.0	9 ± 2.4		
333.0		13 ± 2.0	11 ± 2.2
500.0		7 ± 0.9 <sup>s</sup>	6 ± 2.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>7</sup>		92 ± 5.5	110 ± 9.3
Positive Control <sup>8</sup>	81 ± 18.4		

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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>	86 ± 3.6	91 ± 4.5	106 ± 4.1	149 ± 3.2	96 ± 4.7
3.3	91 ± 6.0	92 ± 4.6	91 ± 5.8		95 ± 5.2
10.0	81 ± 4.7	89 ± 3.5	101 ± 2.9	145 ± 4.3	88 ± 3.5
33.0	75 ± 5.9	Toxic	98 ± 2.3	124 ± 4.7	88 ± 3.8
100.0	70 ± 5.8	87 ± 2.9	77 ± 5.3	120 ± 7.0	83 ± 3.7
200.0	70 ± 6.7 <sup>s</sup>	86 ± 10.4 <sup>s</sup>			
333.0			69 ± 1.7 <sup>s</sup>	105 ± 3.4 <sup>s</sup>	77 ± 6.7 <sup>s</sup>
500.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					515 ± 17.5
Positive Control <sup>6</sup>			926 ± 52.9		
Positive Control <sup>7</sup>				548 ± 13.4	
Positive Control <sup>9</sup>	227 ± 9.8	230 ± 7.9			

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**G06: Ames Summary Data**

Test Compound: 4-Chloro-m-cresol

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	163 ± 12.1
3.3	
10.0	195 ± 5.3
33.0	163 ± 9.1
100.0	142 ± 6.1
200.0	
333.0	93 ± 7.1 <sup>s</sup>
500.0	71 ± 0.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	629 ± 18.8
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>	23 ± 2.6	14 ± 2.6	26 ± 3.2	34 ± 3.2	25 ± 3.8
3.3	20 ± 1.9	17 ± 3.0	24 ± 2.0		30 ± 4.9
10.0	21 ± 0.7	12 ± 0.6	30 ± 1.3	38 ± 2.7	22 ± 0.0
33.0	23 ± 1.0	13 ± 2.2	24 ± 2.7	37 ± 3.1	18 ± 3.5
100.0	19 ± 3.2	16 ± 1.5	24 ± 3.0	36 ± 3.8	28 ± 1.2
200.0	15 ± 1.2	13 ± 2.9			
333.0			27 ± 2.3	34 ± 0.7	24 ± 7.8
666.0				15 ± 3.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					205 ± 20.5
Positive Control <sup>2</sup>			118 ± 1.5		
Positive Control <sup>5</sup>				318 ± 15.6	
Positive Control <sup>11</sup>	236 ± 14.7	196 ± 16.4			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	31 ± 3.4
3.3	
10.0	36 ± 1.5
33.0	38 ± 0.6
100.0	37 ± 4.0
200.0	
333.0	36 ± 3.5
666.0	5 ± 0.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	99 ± 6.5
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 \*\***