

Experiment Number: 463183

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

**G06: Ames Summary Data**

Test Compound: **Methyl mercuric chloride**

CAS Number: 115-09-3

Date Report Requested: 09/11/2018

Time Report Requested: 10:03:24

**NTP Study Number:**

463183

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Methyl mercuric chloride

CAS Number: 115-09-3

Date Report Requested: 09/11/2018

Time Report Requested: 10:03:24

## 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>	100 ± 18.9	110 ± 8.7	85 ± 3.0	86 ± 6.6	99 ± 2.7
0.01	68 ± 3.5	104 ± 2.6			
0.03	68 ± 3.9	106 ± 8.1			
0.1	69 ± 3.6	102 ± 4.0			
0.3	51 ± 2.4	132 ± 5.1	111 ± 8.1	86 ± 4.9	93 ± 5.5
0.4		Toxic			
0.6	Toxic				
1.0			89 ± 2.4	84 ± 2.0	109 ± 10.9
3.3			87 ± 0.3	95 ± 2.3	95 ± 6.2
10.0			68 ± 3.2	66 ± 5.5	60 ± 4.7
33.0			Toxic	35 ± 1.5	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1947 ± 80.9
Positive Control <sup>3</sup>	418 ± 17.2	445 ± 11.8			
Positive Control <sup>4</sup>			505 ± 11.2		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				361 ± 10.8	

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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>	91 ± 4.8
0.01	
0.03	
0.1	
0.3	82 ± 1.2
0.4	
0.6	
1.0	79 ± 7.4
3.3	72 ± 2.9
10.0	72 ± 3.7
33.0	32 ± 4.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	599 ± 5.3
Positive Control <sup>6</sup>	

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Test Compound: Methyl mercuric chloride

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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>	20 ± 1.2	20 ± 2.0	10 ± 2.3	10 ± 1.5	11 ± 1.7
0.01	25 ± 2.2	20 ± 2.7			
0.03	19 ± 3.5	19 ± 3.8			
0.1	23 ± 1.3	20 ± 3.9			
0.3	17 ± 2.0	12 ± 1.8	8 ± 2.3	12 ± 3.8	9 ± 1.7
0.4	Toxic	2 ± 0.0 <sup>s</sup>			
1.0			11 ± 0.3	14 ± 2.6	14 ± 1.7
3.3			14 ± 1.2	15 ± 2.7	17 ± 0.9
10.0			8 ± 1.2	12 ± 1.0	12 ± 1.2
33.0			Toxic	13 ± 3.8	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					79 ± 10.6
Positive Control <sup>3</sup>	244 ± 4.7	279 ± 16.2			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			114 ± 7.6	60 ± 3.3	

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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>	12 ± 2.6
0.01	
0.03	
0.1	
0.3	10 ± 0.9
0.4	
1.0	8 ± 1.0
3.3	7 ± 1.2
10.0	7 ± 2.0
33.0	8 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	81 ± 5.9
Positive Control <sup>6</sup>	

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Test Compound: Methyl mercuric chloride

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.0	5 ± 1.5	7 ± 1.9	17 ± 3.3	10 ± 0.9
0.01	5 ± 1.3	4 ± 1.7			
0.03	7 ± 1.5	5 ± 0.9			
0.1	7 ± 1.5	5 ± 1.5			
0.3	5 ± 0.7	5 ± 2.6	7 ± 1.2	18 ± 1.0	7 ± 1.0
0.4	7 ± 0.3	7 ± 0.7			
1.0			4 ± 0.7	17 ± 2.4	4 ± 2.1
3.3			4 ± 1.5	19 ± 1.2	5 ± 2.7
10.0			2 ± 1.3	13 ± 5.8	2 ± 0.0
33.0			Toxic	9 ± 1.7	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					372 ± 20.7
Positive Control <sup>6</sup>			197 ± 6.0		
Positive Control <sup>7</sup>				46 ± 5.5	
Positive Control <sup>8</sup>	38 ± 6.7				
Positive Control <sup>9</sup>		133 ± 8.7			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 0.9
0.01	
0.03	
0.1	
0.3	10 ± 1.5
0.4	
1.0	12 ± 2.2
3.3	8 ± 0.6
10.0	7 ± 3.3
33.0	3 ± 1.5
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	294 ± 19.7
Positive Control <sup>8</sup>	
Positive Control <sup>9</sup>	

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## G06: Ames Summary Data

Test Compound: Methyl mercuric chloride

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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>	91 ± 4.5	83 ± 1.5	117 ± 6.9	178 ± 7.2	114 ± 6.0
0.01	85 ± 2.3	81 ± 4.9			
0.03	86 ± 6.9	103 ± 2.4			
0.1	81 ± 4.8	90 ± 4.7			
0.3	62 ± 7.5	74 ± 5.2	158 ± 4.6	182 ± 12.5	111 ± 3.5
0.4	66 ± 6.3	1 ± 1.3 <sup>s</sup>			
1.0			123 ± 3.2	162 ± 7.3	102 ± 6.0
3.3			120 ± 12.7	129 ± 5.2	101 ± 2.3
10.0			159 ± 7.4	121 ± 6.5	150 ± 9.3
33.0			0 ± 0.0	38 ± 2.4	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					1615 ± 68.8
Positive Control <sup>6</sup>			974 ± 35.6		
Positive Control <sup>7</sup>				431 ± 9.7	
Positive Control <sup>9</sup>	333 ± 13.5	582 ± 29.5			



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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>	118 ± 8.0
0.01	
0.03	
0.1	
0.3	125 ± 12.5
0.4	
1.0	116 ± 9.7
3.3	106 ± 3.6
10.0	97 ± 6.9
33.0	34 ± 6.4
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	1418 ± 35.5
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>	12 ± 0.6	19 ± 1.0	26 ± 0.7	21 ± 1.3	27 ± 1.5
0.01	13 ± 3.6	23 ± 4.5			
0.03	8 ± 0.0	16 ± 2.1			
0.1	7 ± 2.5	15 ± 1.0			
0.3	17 ± 5.5	15 ± 2.3	26 ± 1.3	21 ± 1.8	33 ± 4.2
0.4		13 ± 2.6			
0.6	Toxic				
1.0			25 ± 1.0	22 ± 1.2	31 ± 2.3
3.3			23 ± 4.1	19 ± 6.6	32 ± 1.9
10.0			20 ± 5.8	22 ± 0.3	21 ± 4.7
33.0			Toxic	14 ± 5.0	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					2701 ± 34.8
Positive Control <sup>2</sup>			171 ± 16.3		
Positive Control <sup>5</sup>				103 ± 6.4	
Positive Control <sup>11</sup>	276 ± 5.7	175 ± 4.3			

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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>	25 ± 0.6
0.01	
0.03	
0.1	
0.3	25 ± 2.6
0.4	
0.6	
1.0	17 ± 2.6
3.3	20 ± 4.1
10.0	20 ± 0.9
33.0	18 ± 1.2
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	58 ± 0.3
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 \*\***