

Experiment Number: 458828

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

**G06: Ames Summary Data**

Test Compound: **Methoxyethyl mercury chloride**

CAS Number: **123-88-6**

Date Report Requested: **09/11/2018**

Time Report Requested: **09:30:13**

**NTP Study Number:**

458828

**Study Result:**

Negative

Experiment Number: 458828

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Methoxyethyl mercury chloride

CAS Number: 123-88-6

Date Report Requested: 09/11/2018

Time Report Requested: 09:30:13

## 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>	120 ± 8.0	129 ± 10.6	125 ± 7.1	172 ± 8.2	116 ± 6.9
0.003	138 ± 19.9				
0.01	158 ± 0.3	134 ± 5.0			
0.03	140 ± 8.4	126 ± 6.6			
0.1	139 ± 8.5	102 ± 4.1			
0.3	135 ± 12.9	95 ± 9.6	108 ± 7.5		141 ± 9.7
1.0		Toxic	106 ± 9.4	159 ± 8.6	135 ± 16.4
3.0			122 ± 6.2	155 ± 3.8	116 ± 3.8
10.0			98 ± 11.0	160 ± 7.6	126 ± 1.8
33.0			8 ± 4.6 <sup>s</sup>	139 ± 8.1	18 ± 5.4
66.0				33 ± 10.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					822 ± 12.8
Positive Control <sup>3</sup>			557 ± 24.5		
Positive Control <sup>4</sup>	604 ± 4.0	464 ± 24.9			
Positive Control <sup>5</sup>				478 ± 14.7	

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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>	171 ± 7.8
0.003	
0.01	
0.03	
0.1	
0.3	
1.0	177 ± 7.6
3.0	156 ± 14.0
10.0	156 ± 11.0
33.0	159 ± 3.5
66.0	37 ± 4.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	529 ± 14.2
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Methoxyethyl mercury chloride  
CAS Number: 123-88-6

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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>	21 ± 0.9	18 ± 2.7	14 ± 1.0	13 ± 0.6	9 ± 1.5
0.003	20 ± 4.0				
0.01	23 ± 2.8	29 ± 2.4			
0.03	20 ± 2.6	23 ± 3.2			
0.1	26 ± 1.9	22 ± 3.9			
0.3	23 ± 1.2	16 ± 0.7			
1.0		Toxic	13 ± 1.9	14 ± 1.9	8 ± 0.0
3.0			9 ± 0.3	12 ± 0.3	9 ± 1.3
10.0			13 ± 2.0	14 ± 1.2	11 ± 0.9
33.0			3 ± 0.9	13 ± 1.5	2 ± 0.9
66.0				15 ± 1.0	
100.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					263 ± 28.7
Positive Control <sup>4</sup>	423 ± 19.6	498 ± 23.3			
Positive Control <sup>6</sup>			204 ± 7.5		
Positive Control <sup>7</sup>				224 ± 10.2	

Experiment Number: 458828

Test Type: Genetic Toxicology - Bacterial  
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**G06: Ames Summary Data**

Test Compound: Methoxyethyl mercury chloride

CAS Number: 123-88-6

Date Report Requested: 09/11/2018

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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>	11 ± 1.2
0.003	
0.01	
0.03	
0.1	
0.3	
1.0	12 ± 1.8
3.0	11 ± 2.0
10.0	12 ± 1.7
33.0	12 ± 1.5
66.0	9 ± 2.1
100.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	375 ± 13.0
Positive Control <sup>7</sup>	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Methoxyethyl mercury chloride

CAS Number: 123-88-6

Date Report Requested: 09/11/2018

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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>	5 ± 0.3	12 ± 1.5	15 ± 0.3
0.003	10 ± 1.7		
0.01	8 ± 1.7		
0.03	8 ± 0.7		
0.1	7 ± 0.3		
0.3	5 ± 1.2		
1.0		8 ± 1.3	9 ± 2.1
3.0		14 ± 1.5	11 ± 0.6
10.0		11 ± 0.9	12 ± 0.9
33.0		10 ± 1.5	7 ± 3.1
66.0		11 ± 0.3	11 ± 3.1
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			40 ± 1.7
Positive Control <sup>6</sup>		39 ± 0.6	
Positive Control <sup>8</sup>	425 ± 29.5		

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## G06: Ames Summary Data

Test Compound: Methoxyethyl mercury chloride

CAS Number: 123-88-6

Date Report Requested: 09/11/2018

Time Report Requested: 09:30:13

## 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>	123 ± 3.8	133 ± 9.9	137 ± 5.8	168 ± 11.6	151 ± 6.9
0.003	154 ± 3.3				
0.01	147 ± 13.6	134 ± 10.3			
0.03	141 ± 8.1	151 ± 2.6			
0.1	144 ± 9.8	172 ± 7.3			
0.3	132 ± 4.4	160 ± 8.7	161 ± 9.2		150 ± 7.4
1.0		Toxic	163 ± 8.7	184 ± 1.2	193 ± 3.1
3.0			155 ± 4.6	170 ± 3.5	181 ± 8.4
10.0			130 ± 4.3	211 ± 11.1	173 ± 7.2
16.0			16 ± 4.9 <sup>s</sup>		61 ± 4.4 <sup>s</sup>
33.0				212 ± 2.0	
66.0				194 ± 10.9	
Trial Summary	Negative	Equivocal	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					319 ± 20.6
Positive Control <sup>3</sup>			305 ± 24.6		
Positive Control <sup>6</sup>				388 ± 19.2	
Positive Control <sup>8</sup>	911 ± 28.7	542 ± 20.9			

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

**G06: Ames Summary Data**

Test Compound: **Methoxyethyl mercury chloride**

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Date Report Requested: 09/11/2018

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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>	154 ± 22.7
0.003	
0.01	
0.03	
0.1	
0.3	
1.0	161 ± 11.8
3.0	176 ± 16.9
10.0	159 ± 18.3
16.0	
33.0	194 ± 4.7
66.0	177 ± 4.6
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	369 ± 45.8
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	



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## G06: Ames Summary Data

Test Compound: Methoxyethyl mercury chloride

CAS Number: 123-88-6

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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>	19 ± 1.3	18 ± 2.0	27 ± 1.7	24 ± 6.2	28 ± 2.4
0.003	15 ± 2.8				
0.01	23 ± 3.0	18 ± 0.6			
0.03	17 ± 2.2	11 ± 3.3			
0.1	19 ± 4.4	18 ± 0.6			
0.3	20 ± 3.5	18 ± 3.5	23 ± 0.9		29 ± 2.6
1.0		Toxic	27 ± 1.8	26 ± 0.9	33 ± 1.3
3.0			19 ± 1.2	26 ± 3.5	23 ± 2.5
10.0			17 ± 0.9	20 ± 0.3	17 ± 2.2
33.0			0 ± 0.0 <sup>s</sup>	14 ± 0.3	4 ± 1.2
66.0				0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			250 ± 25.3	160 ± 2.7	1359 ± 38.1
Positive Control <sup>9</sup>	538 ± 10.7	543 ± 12.7			

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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>	33 ± 3.5
0.003	
0.01	
0.03	
0.1	
0.3	
1.0	30 ± 3.2
3.0	34 ± 2.5
10.0	24 ± 4.9
33.0	29 ± 2.3
66.0	0 ± 0.0
Trial Summary	Negative
Positive Control <sup>3</sup>	373 ± 19.3
Positive Control <sup>9</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 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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