

Experiment Number: 555399

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

G06: Ames Summary Data

Test Compound: **Methyl mercury hydroxide**

CAS Number: 1184-57-2

Date Report Requested: **09/13/2018**

Time Report Requested: **22:01:01**

NTP Study Number:

555399

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Methyl mercury hydroxide

CAS Number: 1184-57-2

Date Report Requested: 09/13/2018

Time Report Requested: 22:01:01

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	151 ± 8.2	134 ± 3.7	115 ± 6.8	129 ± 3.6	131 ± 16.7
0.003		124 ± 5.2			
0.01	130 ± 2.0	132 ± 10.5			
0.03	127 ± 1.9	117 ± 3.8			
0.1	103 ± 5.0	106 ± 2.0			
0.16		115 ± 6.4			
0.3	96 ± 8.7		111 ± 7.6		132 ± 7.9
0.6	6 ± 3.8 ^s				
1.0			93 ± 8.0	111 ± 6.2	122 ± 9.2
3.0			126 ± 8.5	116 ± 3.5	110 ± 7.0
10.0			96 ± 8.7	140 ± 19.1	94 ± 8.7
33.0			14 ± 1.8 ^s	96 ± 3.8	Toxic
100.0				36 ± 8.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					471 ± 6.8
Positive Control ³			375 ± 23.8		
Positive Control ⁴	281 ± 8.0	538 ± 11.4			
Positive Control ⁵				413 ± 6.8	

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Time Report Requested: 22:01:01

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 7.0
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	
0.6	
1.0	148 ± 4.4
3.0	139 ± 5.3
10.0	131 ± 4.6
33.0	108 ± 10.1
100.0	80 ± 4.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	397 ± 9.8
Positive Control ⁴	
Positive Control ⁵	

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Date Report Requested: 09/13/2018

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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 ¹	28 ± 2.0	29 ± 1.7	12 ± 1.8	17 ± 1.9	14 ± 4.2
0.003		29 ± 4.6			
0.01	24 ± 3.8	32 ± 3.5			
0.03	23 ± 2.2	32 ± 2.5			
0.1	16 ± 1.2	27 ± 2.0			
0.16		23 ± 2.9			
0.3	0 ± 0.0 ^s		11 ± 1.2		10 ± 1.8
0.6	Toxic				
1.0			9 ± 1.5	17 ± 0.9	13 ± 1.8
3.0			12 ± 0.6	15 ± 1.9	10 ± 1.2
10.0			11 ± 2.8	15 ± 1.0	13 ± 2.5
33.0			0 ± 0.0 ^s	15 ± 1.2	9 ± 1.5
100.0				9 ± 5.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					327 ± 7.0
Positive Control ⁴	424 ± 11.8	457 ± 6.1			
Positive Control ⁶			186 ± 25.2		
Positive Control ⁷				124 ± 1.2	

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Test Compound: Methyl mercury hydroxide
CAS Number: 1184-57-2

Date Report Requested: 09/13/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.2
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	
0.6	
1.0	15 ± 1.7
3.0	15 ± 1.8
10.0	14 ± 2.7
33.0	13 ± 2.2
100.0	11 ± 2.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	251 ± 14.3
Positive Control ⁷	

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Test Compound: Methyl mercury hydroxide
CAS Number: 1184-57-2

Date Report Requested: 09/13/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.9	12 ± 2.0	10 ± 1.5
0.01	7 ± 0.6		
0.03	8 ± 0.7		
0.1	8 ± 0.7		
0.3	0 ± 0.0 ^s		
0.6	Toxic		
1.0		12 ± 1.7	6 ± 1.3
3.0		12 ± 0.3	8 ± 1.5
10.0		8 ± 3.2	5 ± 2.0
33.0		9 ± 1.5	2 ± 0.7
100.0		0 ± 0.0 ^s	1 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ³			91 ± 28.2
Positive Control ⁶		23 ± 1.8	
Positive Control ⁸	245 ± 31.2		

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Test Compound: Methyl mercury hydroxide
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Date Report Requested: 09/13/2018

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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 ¹	123 ± 6.4	130 ± 6.8	176 ± 6.4	166 ± 13.9	164 ± 7.0
0.003		121 ± 19.3			
0.01	150 ± 12.1	164 ± 3.2			
0.03	166 ± 9.4	155 ± 2.3			
0.1	172 ± 10.1	148 ± 3.9			
0.16		125 ± 5.8			
0.3	38 ± 38.0 ^s		207 ± 6.4		174 ± 2.7
0.6	Toxic				
1.0			201 ± 3.8	189 ± 7.5	169 ± 2.0
3.0			190 ± 5.8	189 ± 14.5	171 ± 5.4
10.0			141 ± 3.5	194 ± 4.0	130 ± 9.1
33.0			0 ± 0.0 ^s	95 ± 4.2	60 ± 3.3 ^s
100.0				0 ± 0.0 ^s	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					491 ± 47.1
Positive Control ³			385 ± 19.1		
Positive Control ⁶				442 ± 12.5	
Positive Control ⁸	893 ± 70.9	429 ± 5.5			

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Test Compound: **Methyl mercury hydroxide**

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	161 ± 6.0
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	
0.6	
1.0	185 ± 15.7
3.0	179 ± 5.0
10.0	180 ± 9.6
33.0	59 ± 5.7
100.0	7 ± 2.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	426 ± 33.7
Positive Control ⁶	
Positive Control ⁸	

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Test Compound: Methyl mercury hydroxide

CAS Number: 1184-57-2

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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 ¹	19 ± 3.0	18 ± 3.2	26 ± 5.9	23 ± 2.1	31 ± 0.9
0.003		17 ± 1.5			
0.01	19 ± 2.3	18 ± 2.3			
0.03	19 ± 0.9	17 ± 3.0			
0.1	15 ± 0.3	16 ± 2.3			
0.16		18 ± 1.2			
0.3	13 ± 2.7		24 ± 1.3		31 ± 3.8
0.6	0 ± 0.0 ^s				
1.0			27 ± 3.5	25 ± 4.1	32 ± 1.9
3.0			29 ± 0.0	23 ± 2.5	30 ± 2.5
10.0			24 ± 2.4	21 ± 3.8	24 ± 2.2
33.0			Toxic	16 ± 3.0	2 ± 1.0 ^s
100.0				0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					536 ± 35.9
Positive Control ³			362 ± 17.7	95 ± 9.9	
Positive Control ⁹	406 ± 1.5	614 ± 20.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 1.5
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	
0.6	
1.0	29 ± 1.0
3.0	29 ± 0.9
10.0	26 ± 0.9
33.0	19 ± 1.5
100.0	8 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	238 ± 18.7
Positive Control ⁹	

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LEGEND

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 ****