

Experiment Number: 108987

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Monosodium methane arsenate

CAS Number: 2163-80-6

Date Report Requested: 09/11/2018

Time Report Requested: 19:20:01

NTP Study Number:

108987

Study Result:

Negative

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Test Compound: Monosodium methane arsenate
CAS Number: 2163-80-6

Date Report Requested: 09/11/2018

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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 ¹	217 ± 9.5	101 ± 5.1	190 ± 11.7	121 ± 7.2	227 ± 2.0
100.0	226 ± 2.3	90 ± 8.7	190 ± 7.3	107 ± 2.3	209 ± 5.8
333.0	200 ± 2.5	89 ± 11.1	186 ± 3.9	121 ± 8.1	209 ± 9.6
1000.0	205 ± 3.9	99 ± 2.2	203 ± 8.1	106 ± 9.2	227 ± 11.2
3333.0	205 ± 9.7	88 ± 6.7	217 ± 2.3	39 ± 1.9	232 ± 3.3
10000.0	210 ± 19.5	90 ± 6.4	210 ± 8.9	0 ± 0.0 ^s	210 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1001 ± 20.0
Positive Control ³			1419 ± 44.4		
Positive Control ⁴				959 ± 23.1	
Positive Control ⁵	783 ± 18.2	1162 ± 7.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	100 ± 2.0
100.0	92 ± 7.5
333.0	99 ± 6.4
1000.0	48 ± 2.9
3333.0	12 ± 2.9 ^s
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1219 ± 27.8
Positive Control ⁵	

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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	24 ± 0.6	21 ± 1.5	10 ± 1.2	13 ± 1.2	11 ± 0.6
100.0	21 ± 2.5	22 ± 3.5	10 ± 0.7	13 ± 0.6	10 ± 0.9
333.0	20 ± 2.1	18 ± 1.5	11 ± 0.3	8 ± 1.9	13 ± 0.7
1000.0	18 ± 1.3	14 ± 1.2	12 ± 1.5	9 ± 1.0	11 ± 0.6
3333.0	21 ± 1.2	22 ± 1.2	12 ± 0.3	5 ± 0.3	11 ± 0.3
10000.0	16 ± 2.6	16 ± 1.9	10 ± 0.3	1 ± 0.3 ^s	8 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					86 ± 1.2
Positive Control ³			103 ± 7.1		
Positive Control ⁴				114 ± 3.2	
Positive Control ⁵	733 ± 12.8	992 ± 20.7			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.9
100.0	12 ± 2.6
333.0	10 ± 1.9
1000.0	9 ± 0.6 ^s
3333.0	4 ± 1.7 ^s
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	206 ± 8.5
Positive Control ⁵	

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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	102 ± 4.2	98 ± 3.8	124 ± 6.9	174 ± 5.9	122 ± 2.3
100.0	92 ± 3.8	94 ± 5.3	133 ± 1.8	165 ± 8.4	124 ± 3.4
333.0	101 ± 4.5	99 ± 2.1	144 ± 2.0	177 ± 11.8	117 ± 6.7
1000.0	105 ± 8.5	93 ± 3.9	133 ± 10.4	106 ± 6.6	117 ± 4.7
3333.0	107 ± 5.7	106 ± 10.2	120 ± 1.2	0 ± 0.0 ^s	92 ± 5.4
10000.0	94 ± 4.6	73 ± 8.4	61 ± 7.8	0 ± 0.0 ^s	31 ± 7.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					770 ± 62.9
Positive Control ³			1208 ± 22.2		
Positive Control ⁴				536 ± 11.0	
Positive Control ⁶	598 ± 35.1	460 ± 6.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	172 ± 5.0
100.0	159 ± 1.5
333.0	147 ± 8.1
1000.0	4 ± 0.9
3333.0	0 ± 0.0 ^s
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	862 ± 19.8
Positive Control 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 ¹	12 ± 1.5	21 ± 3.1	33 ± 1.3	35 ± 1.2	24 ± 0.9
100.0	14 ± 0.6	18 ± 0.7	26 ± 2.9	24 ± 4.3	22 ± 5.0
333.0	17 ± 0.9	20 ± 4.9	28 ± 1.7	30 ± 1.5	27 ± 4.5
1000.0	15 ± 0.7	15 ± 2.6	26 ± 2.6	24 ± 3.3	31 ± 5.0
3333.0	13 ± 1.8	15 ± 2.9	25 ± 2.7	7 ± 1.5	25 ± 2.7
10000.0	15 ± 2.3	14 ± 1.5	18 ± 1.5	Toxic	21 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					968 ± 19.6
Positive Control ³			1407 ± 9.0		
Positive Control ⁴				741 ± 27.1	
Positive Control ⁷	1669 ± 12.3	1880 ± 66.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 2.1
100.0	26 ± 4.1
333.0	27 ± 1.3
1000.0	18 ± 1.2
3333.0	4 ± 0.9
10000.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1175 ± 35.0
Positive Control ⁷	

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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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****