

Experiment Number: 328797

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethylarsinic acid

CAS Number: 75-60-5

Date Report Requested: 09/12/2018

Time Report Requested: 16:27:17

NTP Study Number:

328797

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	104 ± 7.6	105 ± 6.7	137 ± 11.4	118 ± 9.3	161 ± 8.7
10.0	119 ± 8.8	101 ± 9.6	131 ± 7.3	126 ± 6.9	149 ± 10.8
33.0	96 ± 4.4	99 ± 1.5	127 ± 4.1	122 ± 6.9	154 ± 8.8
100.0	92 ± 5.7	108 ± 8.7	132 ± 11.8	126 ± 9.9	142 ± 3.5
333.0	93 ± 5.2	101 ± 3.8	122 ± 2.3	117 ± 11.3	140 ± 5.7
1000.0	104 ± 3.0	102 ± 1.8	138 ± 9.9	137 ± 8.8	143 ± 4.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			575 ± 34.5	315 ± 17.0	932 ± 33.8
Positive Control ³	366 ± 11.4	363 ± 4.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	153 ± 5.4
10.0	148 ± 7.4
33.0	157 ± 6.8
100.0	154 ± 11.6
333.0	143 ± 5.2
1000.0	156 ± 10.4
Trial Summary	Negative
Positive Control ²	539 ± 39.4
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.8	10 ± 1.2	11 ± 1.2	12 ± 0.7	14 ± 1.2
10.0	11 ± 0.6	11 ± 1.5	11 ± 1.9	12 ± 0.6	18 ± 0.7
33.0	4 ± 1.2	8 ± 3.0	11 ± 3.2	14 ± 2.3	16 ± 2.7
100.0	10 ± 0.7	12 ± 0.9	10 ± 2.4	9 ± 0.9	14 ± 4.7
333.0	7 ± 0.3	9 ± 1.5	13 ± 3.4	11 ± 4.2	12 ± 2.0
1000.0	8 ± 1.3	9 ± 0.3	13 ± 0.7	13 ± 1.2	11 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			36 ± 3.5	42 ± 4.3	71 ± 7.0
Positive Control ³	572 ± 32.2	654 ± 40.9			

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Test Compound: Dimethylarsinic acid

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Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.3
10.0	12 ± 1.5
33.0	10 ± 1.7
100.0	11 ± 2.0
333.0	9 ± 1.0
1000.0	12 ± 1.8
Trial Summary	Negative
Positive Control ²	184 ± 17.6
Positive Control ³	

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

Test Compound: Dimethylarsinic acid

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.9	5 ± 1.2	7 ± 0.9	6 ± 1.0	8 ± 2.0
10.0	4 ± 0.7	6 ± 0.9	4 ± 0.3	5 ± 1.2	11 ± 1.5
33.0	3 ± 0.9	3 ± 0.7	6 ± 1.0	5 ± 0.3	6 ± 1.2
100.0	6 ± 1.0	6 ± 0.6	4 ± 1.2	4 ± 0.7	4 ± 0.6
333.0	4 ± 1.9	4 ± 0.6	4 ± 1.5	5 ± 1.0	3 ± 0.3
1000.0	3 ± 0.6	4 ± 0.0	5 ± 0.9	8 ± 2.3	5 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			28 ± 0.7	25 ± 4.4	46 ± 12.2
Positive Control ⁴	535 ± 116.9	561 ± 55.3			

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Test Compound: **Dimethylarsinic acid**

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Date Report Requested: 09/12/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.0
10.0	8 ± 2.4
33.0	6 ± 0.9
100.0	5 ± 2.1
333.0	7 ± 2.3
1000.0	7 ± 1.5
Trial Summary	Negative
Positive Control ²	34 ± 6.3
Positive Control ⁴	

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Test Compound: Dimethylarsinic acid

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.9	14 ± 1.5	19 ± 2.5	23 ± 1.9	23 ± 6.1
10.0	16 ± 0.3	17 ± 1.2	23 ± 1.7	27 ± 0.0	21 ± 1.8
33.0	12 ± 0.5	15 ± 2.0	19 ± 0.7	25 ± 1.2	30 ± 3.0
100.0	14 ± 1.5	14 ± 1.8	20 ± 4.8	23 ± 0.7	26 ± 2.1
333.0	16 ± 0.9	13 ± 2.5	21 ± 1.2	30 ± 4.2	20 ± 1.2
1000.0	17 ± 4.1	17 ± 0.9	30 ± 4.1	32 ± 2.1	24 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			490 ± 74.0	349 ± 16.2	786 ± 60.4
Positive Control ⁵	387 ± 37.0	204 ± 17.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 5.3
10.0	30 ± 2.1
33.0	27 ± 5.0
100.0	33 ± 0.7
333.0	26 ± 1.2
1000.0	27 ± 4.3
Trial Summary	Negative
Positive Control ²	514 ± 37.5
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****