

Experiment Number: 551903

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

G06: Ames Summary Data

Test Compound: **Tetrahydrofuran**

CAS Number: **109-99-9**

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

Time Report Requested: **21:26:42**

NTP Study Number:

551903

Study Result:

Negative

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Test Compound: Tetrahydrofuran

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Date Report Requested: 09/13/2018

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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	111 ± 5.0	118 ± 6.7	144 ± 9.6	138 ± 6.0	175 ± 6.6
100.0	93 ± 1.5	120 ± 10.7	143 ± 2.6	155 ± 10.1	138 ± 4.6
333.0	90 ± 4.5	113 ± 9.3	141 ± 17.9	133 ± 5.0	142 ± 5.7
1000.0	99 ± 5.9	113 ± 8.5	122 ± 6.6	125 ± 6.9	140 ± 5.1
3333.0	100 ± 1.5	114 ± 6.0	137 ± 17.0	139 ± 10.8	144 ± 5.1
10000.0	88 ± 1.5	106 ± 6.5	128 ± 10.7	130 ± 4.7	128 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			971 ± 3.1	1618 ± 46.2	2111 ± 25.3
Positive Control ³	649 ± 11.3	706 ± 18.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	152 ± 12.2
100.0	141 ± 10.7
333.0	140 ± 13.9
1000.0	135 ± 7.5
3333.0	124 ± 0.7
10000.0	135 ± 15.1
Trial Summary	Negative
Positive Control ²	1560 ± 78.4
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Tetrahydrofuran

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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	6 ± 0.7	8 ± 1.2	9 ± 0.9	5 ± 1.9	9 ± 2.6
100.0	5 ± 0.7	5 ± 0.7	7 ± 0.3	5 ± 1.5	9 ± 0.3
333.0	6 ± 1.2	6 ± 0.9	7 ± 0.6	6 ± 0.9	5 ± 0.3
1000.0	6 ± 1.3	6 ± 1.2	9 ± 0.0	8 ± 1.8	4 ± 1.2
3333.0	4 ± 0.3	6 ± 0.6	6 ± 0.3	5 ± 0.6	5 ± 0.9
10000.0	7 ± 0.9	7 ± 1.5	5 ± 0.3	5 ± 1.2	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			56 ± 6.1	115 ± 7.1	94 ± 4.7
Positive Control ³	393 ± 29.4	562 ± 47.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.0
100.0	9 ± 1.8
333.0	6 ± 1.2
1000.0	5 ± 0.7
3333.0	4 ± 0.6
10000.0	6 ± 2.3
Trial Summary	Negative
Positive Control ²	61 ± 11.5
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Tetrahydrofuran

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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	7 ± 2.0	7 ± 2.0	9 ± 1.7	10 ± 1.2	9 ± 1.2
100.0	1 ± 0.3	2 ± 0.6	13 ± 0.7	11 ± 2.0	7 ± 1.8
333.0	3 ± 0.3	7 ± 2.0	10 ± 1.2	8 ± 1.7	8 ± 0.7
1000.0	4 ± 0.9	4 ± 0.6	11 ± 2.5	11 ± 2.6	5 ± 0.3
3333.0	4 ± 0.9	4 ± 0.3	9 ± 0.7	17 ± 7.0	6 ± 0.9
10000.0	3 ± 0.5	Toxic	8 ± 1.0	7 ± 1.2	6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			49 ± 8.2	192 ± 5.5	43 ± 5.7
Positive Control ⁴	232 ± 28.0	718 ± 17.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5
100.0	7 ± 1.9
333.0	8 ± 1.7
1000.0	8 ± 2.2
3333.0	8 ± 2.2
10000.0	9 ± 2.7
Trial Summary	Negative
Positive Control ²	98 ± 9.4
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Tetrahydrofuran

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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	17 ± 1.0	13 ± 2.1	16 ± 0.9	16 ± 0.9	17 ± 1.3
100.0	12 ± 1.7	10 ± 2.9	18 ± 0.7	15 ± 1.8	16 ± 1.8
333.0	13 ± 3.5	11 ± 1.0	20 ± 0.3	15 ± 2.4	20 ± 0.7
1000.0	13 ± 2.0	9 ± 1.0	23 ± 2.7	18 ± 2.8	17 ± 0.3
3333.0	17 ± 1.7	12 ± 1.3	14 ± 0.3	14 ± 2.6	18 ± 1.2
10000.0	12 ± 0.3	11 ± 1.2	16 ± 2.0	14 ± 3.3	16 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			450 ± 26.0	1153 ± 127.0	1431 ± 31.3
Positive Control ⁵	340 ± 18.2	244 ± 26.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 3.5
100.0	12 ± 1.3
333.0	18 ± 2.0
1000.0	14 ± 1.5
3333.0	15 ± 2.7
10000.0	15 ± 0.9
Trial Summary	Negative
Positive Control ²	1808 ± 63.0
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 ****