

Experiment Number: 596374

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Oxalic acid

CAS Number: 144-62-7

Date Report Requested: 09/14/2018

Time Report Requested: 18:33:06

NTP Study Number:

596374

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	108 ± 5.6	79 ± 0.6	102 ± 2.4	91 ± 7.0	105 ± 3.2
33.3	122 ± 6.6		117 ± 11.5		97 ± 4.2
100.0	111 ± 11.1	95 ± 4.5	114 ± 1.9	107 ± 14.5	101 ± 7.1
333.3	107 ± 5.4	86 ± 10.3	110 ± 5.2	88 ± 6.3	98 ± 7.8
1000.0	83 ± 13.4	94 ± 2.0	91 ± 2.4	100 ± 8.4	102 ± 7.8
3333.3	83 ± 12.1	80 ± 3.5	106 ± 10.2 ^p	76 ± 9.7 ^p	98 ± 8.3 ^p
6666.7		61 ± 5.2 ^s		92 ± 6.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			684 ± 44.0	553 ± 5.5	1492 ± 34.2
Positive Control ³	394 ± 5.7	458 ± 10.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	134 ± 4.0
33.3	
100.0	101 ± 7.1
333.3	91 ± 6.8
1000.0	93 ± 7.2
3333.3	77 ± 5.3 ^p
6666.7	25 ± 22.2 ^s
Trial Summary	Negative
Positive Control ²	1161 ± 10.3
Positive Control ³	

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Mutagenicity****G06: Ames Summary Data**Test Compound: **Oxalic acid**CAS Number: **144-62-7**Date Report Requested: **09/14/2018**Time Report Requested: **18:33:06****Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 3.5	13 ± 0.9	11 ± 1.5	6 ± 0.3	7 ± 1.2
33.3	10 ± 1.5		13 ± 2.9		9 ± 2.4
100.0	7 ± 0.9	9 ± 0.6	9 ± 0.3	7 ± 1.0	8 ± 1.3
333.3	9 ± 2.2	8 ± 2.0	5 ± 0.9	7 ± 1.3	7 ± 0.9
1000.0	10 ± 1.5	10 ± 1.5	10 ± 1.9	6 ± 0.6	6 ± 1.7
3333.3	7 ± 0.9	9 ± 2.0	7 ± 1.5 ^p	6 ± 1.8 ^p	6 ± 1.9 ^p
6666.7		8 ± 3.5 ^s		2 ± 2.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	244 ± 5.8	375 ± 4.9			
Positive Control ⁴			189 ± 7.5	271 ± 15.5	274 ± 6.9

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Test Compound: **Oxalic acid**

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Date Report Requested: **09/14/2018**

Time Report Requested: **18:33:06**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.0
33.3	
100.0	8 ± 0.9
333.3	9 ± 1.5
1000.0	7 ± 1.2
3333.3	8 ± 0.7 ^p
6666.7	8 ± 0.9 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	315 ± 3.8

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Test Compound: Oxalic 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	6 ± 0.3	9 ± 2.3	8 ± 3.2	13 ± 2.6	6 ± 1.0
33.3	5 ± 1.5		7 ± 0.9		9 ± 2.0
100.0	7 ± 0.7	11 ± 1.9	10 ± 2.2	15 ± 1.3	6 ± 1.2
333.3	5 ± 0.7	7 ± 0.9	4 ± 0.9	12 ± 2.0	7 ± 0.6
1000.0	4 ± 0.3	7 ± 2.4	5 ± 0.9	10 ± 1.2	5 ± 1.8
3333.3	7 ± 0.9	6 ± 0.9	4 ± 0.6 ^p	8 ± 2.3 ^p	6 ± 0.7 ^p
6666.7		4 ± 1.5 ^s		7 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			251 ± 18.4	311 ± 10.5	464 ± 28.0
Positive Control ⁵	107 ± 41.0	63 ± 7.8			

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Date Report Requested: 09/14/2018
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5
33.3	
100.0	9 ± 1.8
333.3	8 ± 3.0
1000.0	8 ± 0.7
3333.3	6 ± 0.7 ^p
6666.7	1 ± 0.7 ^s
Trial Summary	Negative
Positive Control ⁴	348 ± 4.0
Positive Control ⁵	

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Mutagenicity****G06: Ames Summary Data**Test Compound: **Oxalic acid**CAS Number: **144-62-7**Date Report Requested: **09/14/2018**Time Report Requested: **18:33:06****Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.3	15 ± 1.7	16 ± 8.1	18 ± 1.8	21 ± 3.6
33.3	12 ± 0.7		20 ± 3.1		26 ± 5.7
100.0	12 ± 1.5	19 ± 1.2	23 ± 4.7	20 ± 4.3	21 ± 2.1
333.3	18 ± 0.7	13 ± 2.3	21 ± 2.4	22 ± 2.7	23 ± 3.8
1000.0	19 ± 6.0	14 ± 2.9	24 ± 4.7	18 ± 0.3	24 ± 2.7
3333.3	32 ± 3.8	18 ± 1.0	16 ± 1.7 ^p	17 ± 1.9 ^p	22 ± 1.2 ^p
6666.7		9 ± 1.2 ^s		18 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			180 ± 10.4	320 ± 18.8	638 ± 104.1
Positive Control ⁶	684 ± 9.8	320 ± 18.8			

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CAS Number: **144-62-7**

Date Report Requested: **09/14/2018**

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 3.2
33.3	
100.0	22 ± 2.0
333.3	17 ± 0.9
1000.0	20 ± 3.8
3333.3	18 ± 4.4 ^p
6666.7	4 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	864 ± 46.7
Positive Control ⁶	

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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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****