

Experiment Number: 996378

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Propionic acid

CAS Number: 79-09-4

Date Report Requested: 09/15/2018

Time Report Requested: 10:04:43

NTP Study Number:

996378

Study Result:

Negative

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Date Report Requested: 09/15/2018

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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	98 ± 3.5	83 ± 2.0	100 ± 10.5	126 ± 4.5	90 ± 6.1
100.0	96 ± 5.6	82 ± 1.2	95 ± 3.0	108 ± 5.3	84 ± 5.5
333.0	98 ± 3.9	84 ± 3.2	97 ± 6.2	138 ± 8.1	92 ± 5.0
1000.0	84 ± 4.2	88 ± 2.3	81 ± 7.5	112 ± 7.5	92 ± 2.3
3333.0	89 ± 0.6	85 ± 8.2	92 ± 1.2	130 ± 9.0	102 ± 4.7
6667.0	79 ± 5.6 ^s	70 ± 1.2			
10000.0			Toxic	84 ± 0.3 ^s	99 ± 11.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					402 ± 10.3
Positive Control ³	389 ± 27.4	382 ± 13.9			
Positive Control ⁴			303 ± 11.3		
Positive Control ⁵					
Positive Control ⁶				769 ± 30.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	120 ± 11.7
100.0	105 ± 3.5
333.0	120 ± 6.7
1000.0	111 ± 7.6
3333.0	108 ± 5.5
6667.0	
10000.0	52 ± 21.1 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	529 ± 14.5
Positive Control ⁶	

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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	18 ± 4.1	22 ± 4.8	12 ± 1.5	13 ± 2.2	12 ± 2.8
100.0	18 ± 1.5	16 ± 2.5	9 ± 1.5	14 ± 2.1	13 ± 1.5
333.0	20 ± 1.9	14 ± 0.7	15 ± 0.9	14 ± 1.5	12 ± 2.0
1000.0	16 ± 3.2	15 ± 2.7	9 ± 1.5	12 ± 0.6	10 ± 2.0
3333.0	12 ± 2.1	18 ± 0.7	8 ± 2.9 ^p	14 ± 3.8	8 ± 0.7 ^p
6667.0	13 ± 0.7	12 ± 0.9			
10000.0			4 ± 2.3 ^s	7 ± 2.9 ^s	7 ± 2.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					101 ± 5.7
Positive Control ³	266 ± 10.9	272 ± 4.7			
Positive Control ⁵					
Positive Control ⁶			117 ± 6.6	79 ± 7.4	

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Date Report Requested: 09/15/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.8
100.0	10 ± 0.9
333.0	10 ± 1.5
1000.0	9 ± 2.2
3333.0	12 ± 1.5
6667.0	
10000.0	8 ± 1.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	94 ± 3.8
Positive Control ⁶	

Experiment Number: 996378
Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data
Test Compound: Propionic acid
CAS Number: 79-09-4

Date Report Requested: 09/15/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.7	6 ± 0.6	7 ± 0.7
100.0	6 ± 0.3	9 ± 0.7	8 ± 0.7
333.0	6 ± 0.9	11 ± 1.3	9 ± 1.0
1000.0	6 ± 0.9	8 ± 1.5	9 ± 2.2
3333.0	5 ± 0.9	10 ± 0.9	8 ± 0.3
6667.0	4 ± 0.6		
10000.0		9 ± 2.6 ^s	5 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		54 ± 3.4	117 ± 7.2
Positive Control ⁸	53 ± 4.6		

Experiment Number: 996378

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Propionic acid

CAS Number: 79-09-4

Date Report Requested: 09/15/2018

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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	96 ± 8.3	88 ± 8.5	117 ± 6.4	175 ± 2.0	110 ± 5.5
100.0	84 ± 1.2	89 ± 10.2	121 ± 1.8	168 ± 3.6	109 ± 7.9
333.0	86 ± 6.0	80 ± 3.8	111 ± 2.7	154 ± 13.6	97 ± 2.5
1000.0	76 ± 6.8	73 ± 2.0	110 ± 8.8	176 ± 4.5	108 ± 4.5
3333.0	70 ± 2.8	44 ± 6.2	98 ± 3.0	193 ± 9.9	102 ± 3.0
6667.0	10 ± 1.7 ^s	10 ± 5.1 ^s			
10000.0			Toxic	95 ± 5.7 ^s	13 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					511 ± 13.5
Positive Control ⁶			635 ± 12.1		
Positive Control ⁷				389 ± 16.6	
Positive Control ⁹	221 ± 10.4	261 ± 3.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	130 ± 6.2
100.0	135 ± 6.8
333.0	125 ± 7.0
1000.0	115 ± 6.7
3333.0	114 ± 11.1
6667.0	
10000.0	45 ± 2.8 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	778 ± 7.9
Positive Control ⁹	

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Test Compound: Propionic acid

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Date Report Requested: 09/15/2018

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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	15 ± 2.4	16 ± 2.3	25 ± 1.5	33 ± 0.9	25 ± 2.3
100.0	14 ± 2.3	19 ± 0.3	26 ± 1.5	21 ± 2.0	22 ± 3.8
333.0	17 ± 2.4	12 ± 1.7	23 ± 4.0	23 ± 5.5	23 ± 2.0
1000.0	15 ± 1.7	13 ± 1.2	21 ± 1.8	27 ± 4.4	34 ± 1.8
3333.0	12 ± 2.7	17 ± 0.3	22 ± 1.3	28 ± 1.5	21 ± 1.9
6667.0	9 ± 0.3 ^s	15 ± 0.6			
10000.0			10 ± 4.5 ^s	9 ± 1.8 ^s	7 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					211 ± 15.5
Positive Control ²			173 ± 11.0		
Positive Control ¹¹	264 ± 19.9	220 ± 4.2			
Positive Control ⁵				297 ± 2.0	

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G06: Ames Summary Data
Test Compound: Propionic acid
CAS Number: 79-09-4

Date Report Requested: 09/15/2018
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 3.5
100.0	30 ± 3.5
333.0	27 ± 0.9
1000.0	21 ± 4.1
3333.0	21 ± 1.9
6667.0	
10000.0	12 ± 2.2 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	105 ± 3.2
Positive Control ¹¹	
Positive Control ⁵	

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Test Type: **Genetic Toxicology - Bacterial
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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****