

Experiment Number: A06994

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: DL-alpha-Lipoic acid

CAS Number: 1077-28-7

Date Report Requested: 09/15/2018

Time Report Requested: 15:57:45

NTP Study Number:

A06994

Study Result:

Negative

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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	111 ± 4.2	119 ± 3.8	136 ± 5.5	133 ± 1.9	136 ± 6.9
100.0	108 ± 4.2	126 ± 1.0	142 ± 7.5	130 ± 8.4	139 ± 7.7
333.0	111 ± 3.8	120 ± 8.7	138 ± 5.2	121 ± 4.3	134 ± 3.5
1000.0	113 ± 5.6	128 ± 5.8	123 ± 2.7	124 ± 5.8	125 ± 6.2
3333.0	104 ± 6.3	126 ± 4.3	134 ± 8.5	124 ± 6.9	131 ± 4.8
10000.0	72 ± 2.7	95 ± 4.3	136 ± 4.4	112 ± 3.0	132 ± 8.0
Trial Summary	Positive	Negative	Negative	Negative	Negative
Positive Control ²					727 ± 19.1
Positive Control ³			635 ± 15.9		
Positive Control ⁴	878 ± 19.5	855 ± 24.8			
Positive Control ⁵				570 ± 11.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	128 ± 2.0
100.0	115 ± 2.7
333.0	115 ± 5.2
1000.0	125 ± 0.7
3333.0	118 ± 3.4
10000.0	85 ± 26.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	620 ± 12.8
Positive Control ⁴	
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	9 ± 0.9	13 ± 1.2	11 ± 2.9	11 ± 1.5	11 ± 1.5
100.0	9 ± 0.3	10 ± 1.0	11 ± 1.0	11 ± 0.9	10 ± 0.0
333.0	8 ± 1.7	11 ± 1.5	13 ± 1.2	11 ± 1.2	14 ± 2.0
1000.0	8 ± 0.3	9 ± 0.7	13 ± 1.5	10 ± 0.6	13 ± 0.3
3333.0	8 ± 0.9	13 ± 1.3	11 ± 1.9	11 ± 1.8	14 ± 1.3
10000.0	3 ± 0.7	5 ± 0.3	11 ± 0.9	5 ± 0.3	9 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					123 ± 3.5
Positive Control ⁴	1043 ± 25.9	939 ± 17.8			
Positive Control ⁵			105 ± 4.7		
Positive Control ⁶				123 ± 5.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.5
100.0	9 ± 0.7
333.0	7 ± 1.0
1000.0	7 ± 1.5
3333.0	8 ± 0.6
10000.0	3 ± 0.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	165 ± 12.2
Positive Control ⁶	

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Test Compound: DL-alpha-Lipoic acid

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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	133 ± 7.0	138 ± 5.8	157 ± 10.7	176 ± 5.7	165 ± 9.9
100.0	130 ± 5.2	133 ± 2.3	149 ± 17.9	183 ± 10.0	161 ± 13.9
333.0	123 ± 11.3	138 ± 9.5	163 ± 2.6	171 ± 12.7	150 ± 3.3
1000.0	140 ± 9.2	143 ± 17.6	147 ± 0.3	169 ± 6.9	151 ± 8.5
3333.0	123 ± 0.7	139 ± 12.0	156 ± 8.9	163 ± 10.7	165 ± 11.8
10000.0	89 ± 6.4	101 ± 9.1	150 ± 13.7	94 ± 14.6	149 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					542 ± 15.3
Positive Control ³			491 ± 37.9		
Positive Control ⁵				682 ± 24.6	
Positive Control ⁷	668 ± 33.9	448 ± 29.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	170 ± 6.7
100.0	183 ± 2.0
333.0	162 ± 6.2
1000.0	152 ± 3.0
3333.0	155 ± 14.9
10000.0	103 ± 2.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	723 ± 5.8
Positive Control ⁵	
Positive Control ⁷	

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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	13 ± 0.6	27 ± 2.3	30 ± 4.9	24 ± 1.5	34 ± 2.2
100.0	14 ± 0.9	23 ± 2.9	25 ± 2.5	26 ± 2.1	31 ± 5.9
333.0	17 ± 2.4	23 ± 2.1	24 ± 1.8	22 ± 0.9	30 ± 3.2
1000.0	12 ± 1.7	20 ± 2.6	29 ± 3.0	22 ± 1.3	27 ± 1.2
3333.0	14 ± 2.6	21 ± 1.5	27 ± 4.7	18 ± 0.9	28 ± 3.2
10000.0	7 ± 0.7	13 ± 2.8	29 ± 2.3	17 ± 1.8	26 ± 5.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					519 ± 13.4
Positive Control ³			338 ± 19.2		
Positive Control ⁸	500 ± 14.2	420 ± 18.1			
Positive Control ⁵				449 ± 16.3	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 2.5
100.0	21 ± 4.4
333.0	21 ± 4.6
1000.0	18 ± 3.6
3333.0	19 ± 2.7
10000.0	21 ± 2.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	561 ± 10.4
Positive Control ⁸	
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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****