

Experiment Number: **A84168**

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

**G06: Ames Summary Data**

Test Compound: **alpha-Lipoic acid**

CAS Number: **62-46-4**

Date Report Requested: **09/18/2018**

Time Report Requested: **10:45:35**

**NTP Study Number:**

A84168

**Study Result:**

Equivocal

Experiment Number: A84168

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: alpha-Lipoic acid

CAS Number: 62-46-4

Date Report Requested: 09/18/2018

Time Report Requested: 10:45:35

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	99 ± 4.7	101 ± 4.7	113 ± 7.5	100 ± 3.8
10.0	104 ± 2.7	103 ± 3.2		
50.0	108 ± 10.4	93 ± 8.0		
100.0	106 ± 2.2	90 ± 2.2		
250.0	102 ± 6.8	93 ± 3.8		
500.0	64 ± 5.9	58 ± 8.4		
1000.0			105 ± 9.5	108 ± 6.4
2500.0			85 ± 4.1	109 ± 5.8
5000.0			98 ± 6.1	93 ± 5.2
7500.0			100 ± 29.6	85 ± 8.2
10000.0			67 ± 25.0	59 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	492 ± 11.9	556 ± 26.2		
Positive Control <sup>3</sup>			1253 ± 72.1	1769 ± 12.5

Experiment Number: A84168

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: alpha-Lipoic acid

CAS Number: 62-46-4

Date Report Requested: 09/18/2018

Time Report Requested: 10:45:35

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	22 ± 3.2	30 ± 5.3	35 ± 3.8	36 ± 2.7
10.0	21 ± 2.2	30 ± 2.0		
50.0	21 ± 2.1	25 ± 2.0		
100.0	22 ± 2.9	30 ± 2.0		
250.0	22 ± 3.3	20 ± 1.2		
500.0	12 ± 1.0	15 ± 1.7		
1000.0			31 ± 2.9	37 ± 3.8
2500.0			20 ± 3.2	36 ± 3.8
5000.0			35 ± 6.8	34 ± 1.0
7500.0			29 ± 12.1	47 ± 1.7
10000.0			77 ± 3.6	41 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			1705 ± 68.2	1889 ± 83.6
Positive Control <sup>4</sup>	571 ± 42.5	490 ± 12.2		

Experiment Number: A84168  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: alpha-Lipoic acid  
CAS Number: 62-46-4

Date Report Requested: 09/18/2018  
Time Report Requested: 10:45:35

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	244 ± 7.3	232 ± 4.0	293 ± 9.1	249 ± 16.7
100.0	246 ± 9.4	250 ± 12.9		
250.0	235 ± 10.7	236 ± 15.9		
500.0	205 ± 5.5	160 ± 24.4		
750.0	148 ± 19.5	155 ± 23.6		
1000.0	32 ± 1.2	79 ± 5.7	287 ± 22.8	291 ± 4.4
2500.0			229 ± 18.6	243 ± 6.7
5000.0			215 ± 15.2	226 ± 9.8
7500.0			230 ± 2.7	207 ± 9.1
10000.0			125 ± 31.5	180 ± 9.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>5</sup>			1155 ± 25.1	1068 ± 48.1
Positive Control <sup>6</sup>	2205 ± 64.7	2350 ± 62.9		

Experiment Number: **A84168**  
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**  
Test Compound: **alpha-Lipoic acid**  
CAS Number: **62-46-4**

Date Report Requested: **09/18/2018**  
Time Report Requested: **10:45:35**

### **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 Sodium Azide
- 3: 2.5 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate 2-Nitrofluorene
- 5: 20.0 ug/Plate 2-Aminoanthracene
- 6: 4000.0 ug/Plate Methyl Methane Sulfonate

**\*\* END OF REPORT \*\***