

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-11 10:38:59  
Date of Next Testing: 2029-09-10 10:38:59  
Product Name: **DL-Thioctic acid**  
CAS Number: 1077-28-7  
Specifications & Purity:  $\geq 99\%$   
Lot #: I2504744  
SKU #: **T106640**  
Version: **1**  
Analysis #: **562782**  
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=5 \text{ in EtOH})$	-1-1 (°)	-0.08 °
Heavy metals	0-10 (ppm)	0.00 ppm
Purity(Neutralization titration)	98.5-101.5 (%)	100.32 %
Loss on drying	0-1 (%)	0.11 %
Chloride (Cl-)	0-0.071 (%)	0.01 %
Sulfate Ash	0-0.1 (%)	0.00 %
Melting point	60-63 (°C)	62.90000 °C
Appearance (T106640)	yellow powder, crystals and/or chunks	yellow powder, crystals and/or chunks
Solubility(2% in 10% NaOH)	Pale yellow transparent liquid	Pale yellow transparent liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager