

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-04-09 15:12:11  
 Date of Next Testing: 2029-04-08 15:12:11  
 Product Name: **DL-Thioctic acid**  
 CAS Number: 1077-28-7  
 Specifications & Purity:  $\geq 99\%$   
 Lot #: D2503443  
 SKU #: **T106640**  
 Version: **1**  
 Analysis #: **486234**  
 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 (°)	0.07°
Heavy metals	0-10 (ppm)	0.00 ppm
Purity(Neutralization titration)	98.5-101.5 (%)	100.24 %
Loss on drying	0-1 (%)	0.21 %
Chloride (Cl-)	0-0.071 (%)	0.00 %
Sulfate Ash	0-0.1 (%)	0.00 %
Melting point	60-63 (°C)	62.83000 °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