

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-08-23 11:22:16
Date of Next Testing:	2028-08-22 11:22:16
Product Name:	DL-Thioctic acid
CAS Number:	1077-28-7
Specifications & Purity:	99%
Lot #:	H2416501
SKU #	T106640
Version	1
Analysis #:	395013
Storage Temperature:	Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=5 in EtOH)	-1-1 (°)	0.01°
Heavy metals	0-10 (ppm)	0.00 ppm
Purity(Neutralization titration)	98.5-101.5 (%)	99.98%
Loss on drying	0-1 (%)	0.26%
Chloride (Cl ⁻)	0-0.071 (%)	0.00%
Sulfate Ash	0-0.1 (%)	0.00%
Melting point	60-63 (°C)	62.85000 °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