

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-01-09 11:16:19

Date of Next Testing: 2028-01-08 11:16:19

Product Name: (S)-(-)- $\alpha$ -Lipoic acid

CAS Number: 1077-27-6

Specifications & Purity:  $\geq 97\%$ (HPLC)

Lot #: A2405304

SKU #: L124685

Version: 1

Analysis #: 307838

Storage Temperature: Store at -20°C

| Parameter                                                   | Limit Values                         | Result                               |
|-------------------------------------------------------------|--------------------------------------|--------------------------------------|
| Purity(HPLC)                                                | 97-100 (%)                           | 99.20300 %                           |
| Specific Rotation $[\alpha]_{20/D}(10\text{mg/ml in EtOH})$ | -128--113 (°)                        | -126.40200 °                         |
| Appearance (L124685)                                        | yellow powder,crystals and/or chunks | yellow powder,crystals and/or chunks |
| Proton NMR spectrum                                         | Conforms to Structure                | Conforms to Structure                |
| Infrared spectrum                                           | Conforms to Structure                | Conforms to Structure                |



John Su  
QA & QC Manager