

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-16 16:28:28
 Date of Next Testing: 2029-09-15 16:28:28
 Product Name: **L-(-)-Malic acid**
 CAS Number: 97-67-6
 Specifications & Purity: $\geq 98\%$
 Lot #: I2509737
 SKU # **M105695**
 Version **0**
 Analysis #: **521230**
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Melting point	101-105 (°C)	103.96000 °C
Purity(Neutralization titration)	98-102 (%)	99.08000 %
Specific Rotation $[\alpha]_{20/D}(c=8.5 \text{ in H}_2\text{O})$	-2.6--1.6 (°)	-1.93400 °
Appearance (M105695)	White Powder or Crystals	White Powder or Crystals
Solubility in H ₂ O	Almost transparency	almost transparency
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager