

Certificate of Analysis

Date of Testing: 2023-06-25 17:23:36

Date of Next Testing: 2027-06-24 17:23:36

Product Name: **L-(-)-Malic acid**

CAS Number: 97-67-6

Specifications & Purity: 98%

Lot #: F2316585

SKU #: **M105695**

Version: **0**

Analysis #: **222577**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Melting point	101-105 (°C)	104.72000 °C
Purity(Neutralization titration)	98-102 (%)	99.66 %
Specific Rotation [α] ₂₀ /D(c=8.5 in H ₂ O)	-2.6--1.6 (°)	-2.14 °
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