

Certificate of Analysis

Date of Testing: 2022-09-22 12:05:50

Date of Next Testing: 2026-09-21 12:05:50

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

CAS Number: 97-67-6

Specifications & Purity: 98%

Lot #: I2220685

SKU # **M105695**

Analysis: **132908**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration)	98-102 (%)	100.18 %
Specific Rotation [α] ₂₀ /D(c=8.5 in H ₂ O)	-2.6--1.6 (°)	-1.97 °
Melting point	101-105 (°C)	104.98000 °C
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