

Certificate of Analysis

Date of Testing: 2025-01-10 16:14:01

Date of Next Testing: 2029-01-09 16:14:01

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

CAS Number: 97-67-6

Specifications & Purity: $\geq 98\%$

Lot #: A2508031

SKU #: **M105695**

Version: **0**

Analysis #: **383259**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Melting point	101-105 (°C)	101.80000 °C
Purity(Neutralization titration)	98-102 (%)	99.00 %
Specific Rotation $[\alpha]_{20/D}(c=8.5 \text{ in H}_2\text{O})$	-2.6--1.6 (°)	-1.90 °
Appearance (M105695)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O	Almost transparency	almost transparency



John Su
QA & QC Manager