

Certificate of Analysis

Date of Testing: 2024-09-10 09:25:44

Date of Next Testing: 2028-09-09 09:25:44

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

CAS Number: 97-67-6

Specifications & Purity: $\geq 98\%$

Lot #: I2406543

SKU # **M105695**

Version **0**

Analysis #: **404372**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Melting point	101-105 (°C)	104.25000 °C
Purity(Neutralization titration)	98-102 (%)	99.27 %
Specific Rotation $[\alpha]_{20/D}(c=8.5 \text{ in H}_2\text{O})$	-2.6--1.6 (°)	-2.03 °
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