

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-08 14:48:28  
Date of Next Testing: 2027-09-07 14:48:28  
Product Name: **DL-Malic acid**  
CAS Number: 6915-15-7  
Specifications & Purity: Analytical Reagent, >99.0%(T)  
Lot #: I2305586  
SKU #: **M101126**  
**Analysis:** **266559**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Purity (Titration by NaOH)	99-101 (%)	99.80 %
Specific Rotation $[\alpha]_{20/D}(0.2g/mL \text{ in } H_2O)$	-0.1-0.1 (°)	-0.04 °
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow, Clear ,50 mg/ml	pass	Pass
Appearance (M101126)	White to Off-White Powder or Chunks or particle	White to Off-White Powder or Chunks or particle
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager