

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-05 16:58:01  
Date of Next Testing: 2027-12-04 16:58:01  
Product Name: **DL-Malic acid**  
CAS Number: 6915-15-7  
Specifications & Purity: Analytical Reagent, >99.0%(T)  
Lot #: K2321511  
SKU #: **M101126**  
**Analysis:** **293406**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Purity (Titration by NaOH)	99-101 (%)	99.73 %
Specific Rotation [α] <sub>20</sub> /D(0.2g/mL in H <sub>2</sub> O)	-0.1-0.1 (°)	-0.05 °
Appearance (M101126)	White to Off-White Powder or Chunks or particle	White to Off-White Powder or Chunks or particle
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow,Clear ,50 mg/ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager