

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-15 18:04:31

Date of Next Testing: 2027-11-15 18:04:31

Product Name: **DL-Malic acid**

CAS Number: 6915-15-7

Specifications & Purity: Moligand™, for synthesis

Lot #: K2414135

SKU #: **D433328**

Version: **1**

Analysis #: **266563**

Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Purity (Titration by NaOH)	99-101 (%)	99.64000 %
Specific rotation $[\alpha]_{20/D}(C=0.2 \text{ g/ml}-0.1 \sim 0.1 \text{ }^{\circ})$ in H ₂ O)		-0.03300 °
Melting point	128-132 (°C)	131.77000 °C
Appearance(D433328)	White to Off-White Crystalline powder or particles	White to Off-White Crystalline powder or particles
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager