

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-26 11:36:06

Date of Next Testing: 2025-08-25 11:36:06

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

CAS Number: 138-09-0

Specifications & Purity: $\geq 95\%$

Lot #: H2223452

SKU #: **L332299**

Version: **2**

Analysis #: **099118**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	≤ 13 (%)	8.84950 %
Purity(dry basis) (Ion exchange titration)	95-102.5 (%)	99.21000 %
Appearance(L332299)	White to Off White Solid	White to Off White Solid
ICP: Confirms Sodium Component	Confirmed	Confirmed
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager