

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-08-09 09:36:59  
 Date of Next Testing: 2027-08-09 09:36:59  
 Product Name: **DL-Malic acid disodium salt monohydrate**  
 CAS Number: 207511-06-6  
 Specifications & Purity: BioReagent  
 Lot #: J2115107  
 SKU #: **D302750**  
 Version: **2**  
 Analysis #: **397168**  
 Storage Temperature: Store at 2-8°C, Argon charged, Desiccated

| Parameter                                          | Limit Values             | Result                   |
|----------------------------------------------------|--------------------------|--------------------------|
| Purity(Titration by HClO <sub>4</sub> )(Dry basis) | 98-102 (%)               | 98.40000 %               |
| Heavy metals(as Pb)                                | 0-20 (ppm)               | 0.50000 ppm              |
| Water by Karl Fischer                              | 5-10 (%)                 | 6.80000 %                |
| Appearance (D302750)                               | White to Off-White Solid | White to off-white solid |
| Proton NMR spectrum                                | Conforms to structure    | Conforms to Structure    |



John Su  
QA & QC Manager