

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-02-27 21:27:37

Date of Next Testing: 2026-02-26 21:27:37

Product Name: **Succinic acid**

CAS Number: 110-15-6

Specifications &amp; Purity: AR, ≥99.5%

Lot #: B2222479

SKU #: **S108855**

Version: **0**

Analysis #: **058449**

Storage Temperature: Room temperature

| Parameter                                 | Limit Values          | Result                |
|-------------------------------------------|-----------------------|-----------------------|
| Lead(Pb)                                  | 0-0.001 (%)           | 0.00000 %             |
| Chloride (Cl-)                            | 0-0.001 (%)           | 0.00050 %             |
| Phosphorus (P)                            | 0-0.0005 (%)          | 0.00000 %             |
| Ignition Residue(Ash)                     | 0-0.02 (%)            | 0.00000 %             |
| Ammonia (NH4)                             | 0-0.05 (%)            | 0.03000 %             |
| Aluminum(Al)                              | 0-0.0005 (%)          | 0.00000 %             |
| (PO4)Phosphate                            | 0-0.001 (%)           | 0.00060 %             |
| Iron(Fe)                                  | 0-0.0005 (%)          | 0.00000 %             |
| Magnesium(Mg)                             | 0-0.0005 (%)          | 0.00007 %             |
| Potassium(K)                              | 0-0.005 (%)           | 0.00012 %             |
| Copper(Cu)                                | 0-0.0005 (%)          | 0.00000 %             |
| Sodium(Na)                                | 0-0.005 (%)           | 0.00027 %             |
| Insoluble matter                          | 0-0.01 (%)            | 0.00000 %             |
| Zinc(Zn)                                  | 0-0.0005 (%)          | 0.00000 %             |
| Purity(Neutralization titration)          | 99.5-100.5 (%)        | 99.55000 %            |
| Melting point                             | 185-189 (°C)          | 188.85000 °C          |
| Calcium(Ca)                               | 0-0.001 (%)           | 0.00090 %             |
| Appearance (S108855)                      | white powder          | White powder          |
| Infrared spectrum                         | Conforms to Structure | Conforms to Structure |
| Solubility in H2O , Colorless Clear,0.5 M | pass                  | Pass                  |



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager