

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-08-26 09:33:54

Date of Next Testing: 2028-08-25 09:33:54

Product Name: **Succinic acid**

CAS Number: 110-15-6

Specifications & Purity: AR, ≥99.5%

Lot #: H2408446

SKU #: **S108855**

Version: **0**

Analysis #: **381751**

| Parameter | Limit Values | Result |
|--|-----------------------|-----------------------|
| Lead(Pb) | 0-0.001 (%) | 0.00 % |
| Chloride (Cl-) | 0-0.001 (%) | 0.00 % |
| Phosphorus (P) | 0-0.0005 (%) | 0.00 % |
| Ignition Residue(Ash) | 0-0.02 (%) | 0.02 % |
| Ammonia (NH ₄) | 0-0.05 (%) | 0.02 % |
| Aluminum(Al) | 0-0.0005 (%) | 0.00 % |
| (PO ₄)Phosphate | 0-0.001 (%) | 0.00 % |
| Iron(Fe) | 0-0.0005 (%) | 0.00 % |
| Magnesium(Mg) | 0-0.0005 (%) | 0.00 % |
| Potassium(K) | 0-0.005 (%) | 0.00 % |
| Sodium(Na) | 0-0.005 (%) | 0.00 % |
| Insoluble matter | 0-0.01 (%) | 0.00 % |
| Melting point | 185-189 (°C) | 187.88000 °C |
| Purity(Neutralization titration) | 99.5-100.5 (%) | 99.51 % |
| Calcium(Ca) | 0-0.001 (%) | 0.00 % |
| Copper(Cu) | 0-0.0005 (%) | 0.00 % |
| Zinc(Zn) | 0-0.0005 (%) | 0.00 % |
| Appearance (S108855) | white powder | White powder |
| Solubility in H ₂ O , Colorless Clear,0.5 M | pass | Pass |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager