

## Certificate of Analysis

Date of Testing: 2022-07-20 13:15:08  
 Date of Next Testing: 2026-07-19 13:15:08  
 Product Name: **Succinic acid**  
 CAS Number: 110-15-6  
 Specifications & Purity: Analytical Reagent,99.5%  
 Lot #: G2216525  
 SKU #: **S108855**  
**Analysis: 107233**

Parameter	Limit Values	Result
Melting point	185-189 (°C)	186.23000 °C
Purity(Neutralization titration)	99.5-100.5 (%)	100.17 %
Lead(Pb)	0-0.001 (%)	0.00 %
Calcium(Ca)	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 (%)	0.00 %
Ammonia (NH <sub>4</sub> )	0-0.05 (%)	0.00 %
Aluminum(Al)	0-0.0005 (%)	0.00 %
(PO <sub>4</sub> )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 %
Copper(Cu)	0-0.0005 (%)	0.00 %
Sodium(Na)	0-0.005 (%)	0.00 %
Insoluble matter	0-0.01 (%)	0.00 %
Zinc(Zn)	0-0.0005 (%)	0.00 %
Appearance (S108855)	white powder	White powder
Solubility in H <sub>2</sub> 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".

John Su  
QA & QC Manager