

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-07-15 17:17:52
 Date of Next Testing: 2029-07-14 17:17:52
 Product Name: **Succinic acid**
 CAS Number: 110-15-6
 Specifications & Purity: PharmPure™,ChP,JP,ACS,NF,crystalline
 Lot #: GMG2609002
 SKU #: **S431422**
 Version: **3**
 Analysis #: **741518**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Arsenic(As)	0-0.00015 (%)	0.00001 %
Assay(alkalimetric)	99.0-100.5 (%)	99.76000 %
Assay(HPLC)	98-102 (%)	100.79356 %
Water Insoluble Matter	0-0.01 (%)	0.00399 %
Melting range	185-190 (°C)	187.80000 °C
Nitrogen compounds(as N)	0-0.001 (%)	0.00023 %
Phosphate(PO4)	0-0.001 (%)	0.00000 %
Chloride (Cl-)	0-0.001 (%)	0.00000 %
Sulfate(SO4)	0-0.003 (%)	0.00000 %
Fe(Iron)	0-5 (ppm)	0.00000 ppm
Heavy metals (as Pb)	0-5 (ppm)	0.00680 ppm
Identity(HPLC)	Passes test	Passes test
Identity (IR-spectrum)	conforms	Conforms
Identity (wet chemistry)	passes test	Passes test
Residual solvents (ICH Q3C)(excluded by manufacturing process)	pass	Pass
Substances reducing permanganate	Passes test	Passes test
Appearance(S431422)	White crystalline	white crystalline
Solubility:soluble in methanol or ethanol or water, and slightly soluble in acetone	Pass	Pass



QualityAssurance@aladdinsci.com

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

John Su
QA & QC Manager