

Certificate of Analysis

Date of Testing: 2023-06-15 16:04:58

Date of Next Testing: 2027-06-14 16:04:58

Product Name: **Ammonium citrate tribasic**

CAS Number: 3458-72-8

Specifications & Purity: AR, ≥98.5%

Lot #: F2309208

SKU #: **A116440**

Version: **0**

Analysis #: **233350**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Iron(Fe)	0-0.001 (%)	0.00 %
Sulfate(SO42-)	0-0.005 (%)	0.00 %
Assay	98.5-100 (%)	99.48 %
Calcium(Ca)	0-0.01 (%)	0.00 %
Phospate(PO4)	0-0.002 (%)	0.00 %
Heavy metal (as Pb)	0-0.002 (%)	0.00 %
Insoluble matter in H2O	0-0.005 (%)	0.00 %
Ignition Residue (as sulfate)	0-0.03 (%)	0.02 %
Chloride (Cl-)	0-0.003 (%)	0.00 %
Appearance (A116440)	White to Off-White Crystals	White to Off-White Crystals
oxalate (C2O42-)	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Substances darkened by sulfuric acid	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