

## Certificate of Analysis

Date of Testing: 2025-01-04 16:38:53

Date of Next Testing: 2029-01-03 16:38:53

Product Name: **Ammonium citrate tribasic**

CAS Number: 3458-72-8

Specifications & Purity: AR, ≥98.5%

Lot #: L2426290

SKU #: **A116440**

Version: **1**

Analysis #: **443110**

Storage Temperature: Desiccated

| Parameter                                              | Limit Values                | Result                      |
|--------------------------------------------------------|-----------------------------|-----------------------------|
| Iron(Fe)                                               | 0-0.001 (%)                 | 0.00 %                      |
| Assay                                                  | 98.5-100 (%)                | 98.60 %                     |
| Calcium(Ca)                                            | 0-0.01 (%)                  | 0.00 %                      |
| Phosphate(PO <sub>4</sub> )                            | 0-0.002 (%)                 | 0.00 %                      |
| Heavy metal (as Pb)                                    | 0-0.002 (%)                 | 0.00 %                      |
| Insoluble matter in H <sub>2</sub> O                   | 0-0.005 (%)                 | 0.00 %                      |
| Ignition Residue (as sulfate)                          | 0-0.03 (%)                  | 0.00 %                      |
| Chloride (Cl <sup>-</sup> )                            | 0-0.003 (%)                 | 0.00 %                      |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )                | 0-0.005 (%)                 | 0.00 %                      |
| Appearance (A116440)                                   | White to Off-White Crystals | White to Off-White Crystals |
| Proton NMR spectrum                                    | Conforms to Structure       | Conforms to Structure       |
| oxalate (C <sub>2</sub> O <sub>4</sub> <sup>2-</sup> ) | pass                        | Pass                        |
| 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