

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-10 09:46:53
Date of Next Testing: 2026-12-09 09:46:53
Product Name: **1,10-Phenanthroline monohydrochloride monohydrate**
CAS Number: 3829-86-5
Specifications & Purity: reagent grade, 97.0 %
Lot #: L2202621
SKU #: **P109272**
Analysis: **166004**

| Parameter | Limit Values | Result |
|--|---|---|
| Sulfate Ash | 0-0.1 (%) | 0.00 % |
| Water by Karl Fischer | 0-8.5 (%) | 7.85 % |
| Assay(Titration by AgNO ₃) | 97-102.5 (%) | 99.75 % |
| Appearance (P109272) | white to off-white powder, crystals and/or chunks | white to off-white powder, crystals and/or chunks |
| Solubility in H ₂ O , 0.1 g/mL, transparent | pass | Pass |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager