

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-02-27 09:11:07  
Date of Next Testing: 2030-02-26 09:11:07  
Product Name: **1,10-Phenanthroline monohydrochloride monohydrate**  
CAS Number: 3829-86-5  
Specifications & Purity: AR, ≥97%  
Lot #: B2625773  
SKU #: **P109272**  
Version: **4**  
Analysis #: **662844**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Sulfate Ash	0-0.1 (%)	0.00000 %
Water by Karl Fischer	0-8.5 (%)	7.59080 %
Melting point	224-227 (°C)	226.11700 °C
Purity(HPLC area)	97-100 (%)	100.00000 %
Appearance (P109272)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Solubility in H <sub>2</sub> O , 0.1 g/mL, transparent	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager