

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-10 16:13:05  
Date of Next Testing: 2027-06-09 16:13:05  
Product Name: **1,10-Phenanthroline monohydrochloride monohydrate**  
CAS Number: 3829-86-5  
Specifications & Purity: 98%  
Lot #: F2303635  
SKU #: **P109273**  
**Analysis:** **223634**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-8.5 (%)	7.48 %
Melting point	224-227 (°C)	226.06000 °C
Purity(HPLC)	98-100 (%)	99.83900 %
Appearance (P109273)	White or light yellow or light-pink crystalline powder	White or light yellow or light-pink crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O	Almost transparency	almost transparency
Suitability for iron-analysis	pass test	pass test



John Su  
QA & QC Manager