

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-25 14:05:06  
 Date of Next Testing: 2028-03-24 14:05:06  
 Product Name: **1,10-Phenanthroline Monohydrate**  
 CAS Number: 5144-89-8  
 Specifications & Purity: Analytical Reagent, 98%  
 Lot #: C2415067  
 SKU #: **P104932**  
**Analysis:** **325216**  
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	71.2-74.2 (%)	72.41%
Water by Karl Fischer	0-11.1 (%)	8.82%
Nitrogen by Elemental Analysis	13.8-14.4 (%)	14.07%
Purity(HPLC)	98-100 (%)	98.45000%
Appearance (P104932)	White to Off-White Powder or Solid	White to Off-White Powder or Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH , Colorless to Light Yellow Clear to Hazy(100mg/ml)	pass	Pass



John Su  
QA & QC Manager