

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-06 12:50:10
 Date of Next Testing: 2026-12-05 12:50:10
 Product Name: **1,10-Phenanthroline Monohydrate**
 CAS Number: 5144-89-8
 Specifications & Purity: AR, ≥98%
 Lot #: K22301143
 SKU #: **P104932**
 Version: **0**
 Analysis #: **157332**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	71.2-74.2 (%)	72.44900 %
Water by Karl Fischer	0-11.1 (%)	8.85030 %
Nitrogen by Elemental Analysis	13.8-14.4 (%)	14.10700 %
Purity(HPLC)	98-100 (%)	98.88400 %
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