

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-12-13 18:44:53  
Date of Next Testing: 2026-12-12 18:44:53  
Product Name: **1,10-Phenanthroline**  
CAS Number: 66-71-7  
Specifications & Purity: Moligand™, ≥99%  
Lot #: L2207928  
SKU #: **P111141**  
Version: **1**  
Analysis #: **149922**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.04000 %
Purity(Titration by HClO <sub>4</sub> )	98.5-101.5 (%)	99.99 %
Water by Karl Fischer	0-1 (%)	0.09 %
Melting point	114-120 (°C)	118.62000 °C
Sulfate Ash	0-0.1 (%)	0.10 %
Appearance (P111141)	White to Off White and Pink Powder	White to Off White and Pink Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager