

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-02 10:41:57
Date of Next Testing: 2028-09-01 10:41:57
Product Name: **1,10-Phenanthroline Monohydrate**
CAS Number: 5144-89-8
Specifications & Purity: Analytical Reagent,98%
Lot #: H2427418
SKU #: **P104932**
Version: **0**
Analysis #: **397686**
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|--|------------------------------------|------------------------------------|
| Carbon by Elemental Analysis | 71.2-74.2 (%) | 72.50% |
| Water by Karl Fischer | 0-11.1 (%) | 9.55% |
| Nitrogen by Elemental Analysis | 13.8-14.4 (%) | 14.13% |
| Purity(HPLC) | 98-100 (%) | 99.95100% |
| 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