

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-09-02 10:42:28

Date of Next Testing: 2028-09-01 10:42:28

Product Name: **1,10-Phenanthroline Monohydrate**

CAS Number: 5144-89-8

Specifications & Purity: AR, ≥98%

Lot #: H2427365

SKU #: **P104932**

Version: **0**

Analysis #: **397686**

Storage Temperature: Room temperature, Argon charged

| Parameter                                                              | Limit Values                       | Result                             |
|------------------------------------------------------------------------|------------------------------------|------------------------------------|
| Carbon by Elemental Analysis                                           | 71.2-74.2 (%)                      | 72.49500 %                         |
| Water by Karl Fischer                                                  | 0-11.1 (%)                         | 9.54840 %                          |
| Nitrogen by Elemental Analysis                                         | 13.8-14.4 (%)                      | 14.12800 %                         |
| 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