

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-29 08:37:53
Date of Next Testing: 2027-03-28 08:37:53
Product Name: **1,10-Phenanthroline monohydrochloride monohydrate**
CAS Number: 3829-86-5
Specifications & Purity: 98%
Lot #: C23231001
SKU #: **P109273**
Analysis: **194472**
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|--------------------------------|--|--|
| Water by Karl Fischer | 0-8.5 (%) | 7.21 % |
| Melting point | 224-227 (°C) | 225.60000 °C |
| Purity(HPLC) | 98-100 (%) | 99.83800 % |
| Appearance (P109273) | White or light yellow or light-pink crystalline powder | White or light yellow or light-pink crystalline powder |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in H ₂ O | Almost transparency | almost transparency |
| Suitability for iron-analysis | pass test | pass test |



John Su
QA & QC Manager