

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-06-17 17:19:37  
Date of Next Testing: 2028-06-16 17:19:37  
Product Name: **3,4,7,8-Tetramethyl-1,10-phenanthroline**  
CAS Number: 1660-93-1  
Specifications & Purity: >98.0%(HPLC)  
Lot #: F2413019  
SKU #: **T122871**  
Version: **0**  
Analysis #: **042708**

| Parameter  | Limit Values                                       | Result   |
|--|--|--|
| Purity(Titration by HClO <sub>4</sub> )                                  | 97.5-102.5 (%)                                     | 99.50 %  |
| Purity(HPLC)   | 98-100 (%)   | 98.42500 %   |
| Appearance (T122871)   | White to light orange powder,crystals and/or chunk | White to light orange powder,crystals and/or chunk |
| Proton NMR spectrum  | Conforms to Structure                              | Conforms to Structure                              |
| Solubility in 95% EtOH , Colorless to Brown-Yellow Clear to Hazy 50mg/ml | pass   | Pass   |
| Solubility in hot MeOH   | almost transparency                                | almost transparency                                |



John Su  
QA & QC Manager