

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-01-28 19:07:12  
 Date of Next Testing: 2030-01-27 19:07:12  
 Product Name: **4,5-Methylenedioxy-1,2-phenylenediamine dihydrochloride**  
 CAS Number: 81864-15-5  
 Specifications & Purity: for fluorescence analysis, ≥95%(HPLC)  
 Lot #: A2627590  
 SKU #: **M121480**  
 Version: **2**  
 Analysis #: **638746**  
 Storage Temperature: Store at -20°C, Argon charged

| Parameter                                                                                                               | Limit Values                                                     | Result                                                           |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| Carbon by Elemental Analysis                                                                                            | 36.4-38.3 (%)                                                    | 37.34 %                                                          |
| Nitrogen by Elemental Analysis                                                                                          | 12-12.8 (%)                                                      | 12.12 %                                                          |
| Purity(HPLC)                                                                                                            | 95-100 (%)                                                       | 99.41400 %                                                       |
| Appearance (M121480)                                                                                                    | White to light orange to purplish red powder to dark brown solid | White to light orange to purplish red powder to dark brown solid |
| Proton NMR spectrum                                                                                                     | Conforms to Structure                                            | Conforms to Structure                                            |
| Solubility, Colorless to faint yellow to light orange to purplish red to Dark Brown, clear (50 mg/mL, H <sub>2</sub> O) | Pass                                                             | Pass                                                             |



John Su  
QA & QC Manager