

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-02 16:42:46  
 Date of Next Testing: 2029-09-01 16:42:46  
 Product Name: **5,10,15,20-Tetrakis(4-aminophenyl)porphyrin**  
 CAS Number: 22112-84-1  
 Specifications & Purity:  $\geq 95\%$   
 Lot #: H2528584  
 SKU #: **T123122**  
 Version: **1**  
 Analysis #: **542741**  
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                      | Limit Values             | Result                   |
|--------------------------------|--------------------------|--------------------------|
| Nitrogen by Elemental Analysis | 14.9-17.5 (%)            | 15.89500 %               |
| Lambda max.(Toluene)           | 428-431 (nm)             | 429.00000 nm             |
| Carbon by Elemental Analysis   | 73.5-78.9 (%)            | 75.55100 %               |
| Purity(HPLC)                   | 95-100 (%)               | 96.56000 %               |
| Appearance (T123122)           | Purple Granules or Solid | Purple Granules or Solid |
| Proton NMR spectrum            | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager