

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-07 15:42:15  
Date of Next Testing: 2028-12-06 15:42:15  
Product Name: **5,10,15,20-Tetrakis(4-aminophenyl)porphyrin**  
CAS Number: 22112-84-1  
Specifications & Purity:  $\geq 95\%$   
Lot #: L2403437  
SKU #: **T123122**  
Version: **1**  
Analysis #: **437150**  
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                      | Limit Values             | Result                   |
|--------------------------------|--------------------------|--------------------------|
| Nitrogen by Elemental Analysis | 14.9-17.5 (%)            | 15.72 %                  |
| Purity(HPLC)                   | 95-100 (%)               | 98.04900 %               |
| Lambda max.(Toluene)           | 428-431 (nm)             | 429.00 nm                |
| Carbon by Elemental Analysis   | 73.5-78.9 (%)            | 74.88 %                  |
| Appearance (T123122)           | Purple Granules or Solid | Purple Granules or Solid |
| Proton NMR spectrum            | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager