

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-02-11 16:02:43

Date of Next Testing: 2029-02-10 16:02:43

Product Name: 4,4',4'',4'''-(Porphine-5,10,15,20-tetrayl) tetrakis(benzoic acid)

CAS Number: 14609-54-2

Specifications & Purity: Dye content 75 %

Lot #: E2111040

SKU #: P115337

Version: 1

Analysis #: 469365

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                                                                 | Limit Values                                  | Result                                        |
|---------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Extinction Coefficient(408 - 414 nm)(5% Na <sub>2</sub> CO <sub>3</sub> ) | ≥125000                                       | 125000.00000                                  |
| Carbon by Elemental Analysis                                              | 53.5-74.4 (%)                                 | 74.18600 %                                    |
| Nitrogen by Elemental Analysis                                            | 5.1-7.2 (%)                                   | 6.49800 %                                     |
| Appearance (P115337)                                                      | Blue to Purple to Dark Purple to Black powder | Blue to Purple to Dark Purple to Black powder |
| Proton NMR spectrum                                                       | Conforms to Structure                         | Conforms to Structure                         |



John Su  
QA & QC Manager