

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-04-20 09:46:19
 Date of Next Testing: 2030-04-19 09:46:19
 Product Name: 4,4',4'',4'''-(Porphine-5,10,15,20-tetrayl) tetrakis(benzoic acid)(TCPP)
 CAS Number: 14609-54-2
 Specifications & Purity: ≥97%
 Lot #: D2615413
 SKU #: P115336
 Version: 1
 Analysis #: 672042
 Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Purity(Neutralization titration)	96.5-103.5 (%)	97.92000 %
Purity(HPLC)	97-100 (%)	97.77500 %
Appearance (P115336)	Dark Blue to Purple to Black Powder to Crystal	Dark Blue to Purple to Black Powder to Crystal
Infrared spectrum	Conforms to Structure	Conforms to Structure
NMR (1H-NMR)	complies	complies



John Su
QA & QC Manager