

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-07 18:09:03  
Date of Next Testing: 2026-11-06 18:09:03  
Product Name: 4,4',4'',4'''-(Porphine-5,10,15,20-tetrayl) tetrakis(benzoic acid)  
CAS Number: 14609-54-2  
Specifications & Purity: 97%  
Lot #: J2228614  
SKU #: P115336  
Analysis: 120572

Parameter	Limit Values	Result
Purity(Neutralization titration)	96.5-103.5 (%)	98.70%
Purity(HPLC)	97-100 (%)	97.02100%
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
Suitability for HPLC-analysis	pass test	pass test



John Su  
QA & QC Manager