

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-14 16:44:19  
Date of Next Testing: 2027-03-13 16:44:19  
Product Name: 4,4',4'',4'''-(Porphine-5,10,15,20-tetrayl) tetrakis(benzoic acid)  
CAS Number: 14609-54-2  
Specifications & Purity: 97%  
Lot #: C2306833  
SKU #: P115336  
Analysis: 199362

Parameter	Limit Values	Result
Purity(Neutralization titration)	96.5-103.5 (%)	101.62 %
Purity(HPLC)	97-100 (%)	97.78500 %
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