

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-26 18:11:43  
Date of Next Testing: 2027-06-25 18:11:43  
Product Name: 4,4',4'',4'''-(Porphine-5,10,15,20-tetrayl) tetrakis(benzoic acid)  
CAS Number: 14609-54-2  
Specifications & Purity: 97%  
Lot #: F2316713  
SKU #: P115336  
Analysis: 236619

Parameter	Limit Values	Result
Purity(Neutralization titration)	96.5-103.5 (%)	98.78 %
Purity(HPLC)	97-100 (%)	98.14300 %
Appearance (P115336)	Dark Blue to Purple to Black Powder to Crystal	Dark Blue to Purple to Black Powder to Crystal
Suitability for HPLC-analysis	pass test	pass test
Infrared spectrum	Conforms to Structure	Conforms to Structure
NMR (1H-NMR)	complies	complies



John Su  
QA & QC Manager