

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-12-04 10:20:37
Date of Next Testing:	2027-12-04 10:20:37
Product Name:	5,10,15,20-Tetraphenyl-21H,23H-porphine copper(II)
CAS Number:	14172-91-9
Specifications & Purity:	≥97%
Lot #:	K2428469
SKU #	T302845
Version	2
Analysis #:	351316
Storage Temperature:	Room temperature,Argon charged,Desiccated

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	98.01000 %
Extinction	≥ 390000	519882.00000
Coefficient(414 - 420 nm,C=0.001g/L In Toluene)		
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance(T302845)	Green to Dark green to Dark blue to Faint Purple to Dark Purple to Purplish red to light brown powder to crystal	Green to Dark green to Dark blue to Faint Purple to Dark Purple to Purplish red to light brown powder to crystal
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
ICP: Confirms Copper Component	Conforms	Conforms



John Su
QA & QC Manager