

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-01-26 10:18:27
Date of Next Testing: 2026-01-25 10:18:27
Product Name: **Copper(II) phthalocyanine**
CAS Number: 147-14-8
Specifications & Purity: sublimed grade, 99 %
Lot #: A2220269
SKU #: **C123342**
Analysis: **063794**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	19.2-19.9 (%)	19.36 %
Purity	99-100 (%)	99.50 %
Carbon by Elemental Analysis	65.7-68.4 (%)	66.38 %
Wavelength(c=0.005g/L;Chloronaphthalene)	675-681 (nm)	678.00 nm
Water by Karl Fischer	0-0.5 (%)	0.30 %
Extinction Coefficient	≥11000	12000.00
Appearance (C123342)	Purple Needles and/or Powder	Purple Needles and/or Powder
ICP: Confirms Cu Components	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager