

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-09 16:00:44
 Date of Next Testing: 2026-09-08 16:00:44
 Product Name: **Dichlorotris(1,10-phenanthroline)ruthenium(II) hydrate**
 CAS Number: 304695-79-2
 Specifications & Purity: $\geq 98\%$
 Lot #: J1831156
 SKU #: **D113514**
 Version: **0**
 Analysis #: **133045**
 Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-12 (%)	7.20000 %
Carbon by Elemental Analysis(anhydrous)	58.9-62.2 (%)	59.60000 %
Nitrogen by Elemental Analysis (anhydrous)	11-12.3 (%)	11.30000 %
Appearance (D113514)	Red-Orange to Red Powder or Crystals	Red-Orange to Red Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager