

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-09 09:04:19

Date of Next Testing: 2027-01-08 09:04:19

Product Name: **Dichlorotris(1,10-phenanthroline)ruthenium(II) hydrate**

CAS Number: 304695-79-2

Specifications & Purity: $\geq 98\%$

Lot #: A2303321

SKU #: **D113514**

Version: **0**

Analysis #: **175892**

Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-12 (%)	11.55170 %
Carbon by Elemental Analysis(anhydrous)	58.9-62.2 (%)	58.91000 %
Nitrogen by Elemental Analysis (anhydrous)	11-12.3 (%)	11.73570 %
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