

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-25 10:54:43

Date of Next Testing: 2027-05-24 10:54:43

Product Name: **RuCl₂[(R)-binap][(R,R)-dpen]**

CAS Number: 212143-23-2

Specifications & Purity: ≥98%

Lot #: E2318451

SKU #: **D123138**

Version **0**

Analysis #: **209401**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Ruthenium (Ru)	9.6-10.5 (%)	9.72000 %
Carbon by Elemental Analysis	66.1-72.3 (%)	68.20000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance (D123138)	Yellow to Tan Powder or Crystalline Solid	Yellow to Tan Powder or Crystalline Solid



John Su
QA & QC Manager