

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-20 10:39:45

Date of Next Testing: 2028-12-19 10:39:45

Product Name: **Carbonylchlorohydrido[bis(2-(diphenylphosphinoethyl)amino)ruthenium(II)]**

CAS Number: 1295649-40-9

Specifications & Purity: $\geq 96\%$

Lot #: L2519226

SKU #: **C282667**

Version: **3**

Analysis #: **626991**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Assay(Titration by AgNO ₃)	95.5-104.5 (%)	96.10 %
Ruthenium (Ru)	15-17 (%)	15.80 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
ICP: Confirms Ru Component	Confirmed	Confirmed
Appearance(C282667)	White to Yellow Powder or Crystals	White to yellow powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager