

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-03-20 14:42:41

Date of Next Testing: 2027-03-20 14:42:41

Product Name: **Diacetato[(R)-(+)-5,5'-bis(diphenylphosphino)-4,4'-bi-1,3-benzodioxole]ruthenium(II)**

CAS Number: 944450-48-0

Specifications & Purity: $\geq 98\%$

Lot #: C2513738

SKU #: **R396979**

Version: **1**

Analysis #: **417547**

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

Parameter	Limit Values	Result
Assay(Ru)	98-100 (%)	98.01000 %
Specific rotation $[\alpha]_{20/D}(C=0.5\%, \text{Chloroform})$	650-875 (°)	764.40000 °
Appearance(R396979)	Light yellow to green crystalline powder	Light yellow to green crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager