

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-11 15:52:09  
Date of Next Testing: 2025-10-10 15:52:09  
Product Name: **(R)-RuCl[(p-cymene)(BINAP)]Cl**  
CAS Number: 145926-28-9  
Specifications & Purity: 98%  
Lot #: A2205244  
SKU #: **C396000**  
**Analysis: 284097**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(As C)	98-100 (%)	98.23 %
Specific rotation $[\alpha]_{20/D}(C = 0.5\%, CHCl_3)$	510-610 (°)	516.20000 °
Appearance(C396000)	Yellow to Orange to Brown Powder	Yellow to Orange to Brown Powder
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager