

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-04-07 13:44:33
Date of Next Testing: 2026-04-07 13:44:33
Product Name: (S)-RuCl[(p-cymene)(T-BINAP)]Cl
CAS Number: 228120-95-4
Specifications & Purity: 95%
Lot #: F2218123
SKU #: S138527
Analysis: 339634
Storage Temperature: Store at 2-8°C, Argon charged

| Parameter | Limit Values | Result |
|--|-----------------------|-----------------------|
| Purity(HPLC) | 95-100 (%) | 98.70000 % |
| Specific rotation $[\alpha]_{20/D}(C=0.5g/100mL CHCl_3)$ | -545--445 (°) | -529.00000 ° |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager