

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-05-18 09:51:38
 Date of Next Testing: 2024-05-17 09:51:38
 Product Name: **RuCl(p-cymene)[(R,R)-Ts-DPEN]**
 CAS Number: 192139-92-7
 Specifications & Purity: $\geq 98\%$
 Lot #: E2213051
 SKU #: **R138419**
 Version: **5**
 Analysis #: **079393**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.00000 %
Carbon by Elemental Analysis	56.7-60.3 (%)	59.40000 %
Appearance (R138419)	Orange to Brown powder to crystal	Orange to Brown powder to crystal
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager