

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-11-13 14:04:27

Date of Next Testing: 2025-11-12 14:04:27

Product Name: [(S)-2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl]ruthenium(II) Dichloride

CAS Number: 134524-84-8

Specifications & Purity: $\geq 97\%$

Lot #: A2205437

SKU #: S138169

Version: 2

Analysis #: 282078

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	62.5-70.5 (%)	65.84000 %
Assay(HPLC)	97-100 (%)	98.04000 %
Appearance (S138169)	yellow powder	yellow powder
ICP: Confirms Ru Component	Confirmed	Confirmed
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager