

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-06 15:35:35

Date of Next Testing: 2025-05-05 15:35:35

Product Name: **Diacetato[(S)-(-)-2,2'-bis(diphenylphosphino)-1,1'-binaphthyl]ruthenium(II)**

CAS Number: 261948-85-0

Specifications & Purity: $\geq 98\%$

Lot #: D23211365

SKU #: **D294390**

Version: **1**

Analysis #: **201047**

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

Parameter	Limit Values	Result
Carbon by Elemental Analysis	67-71.19 (%)	67.05000 %
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
Appearance(D294390)	Light yellow to Yellow to Brown to Amber to Dark green powder to crystal	Light yellow to Yellow to Brown to Amber to Dark green powder to crystal
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager