

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-06-10 10:31:12

Date of Next Testing: 2024-06-09 10:31:12

Product Name: (R)-(+)-2,2'-Bis(diphenylphosphino)-6,6'-dimethoxy-1,1'-biphenyl

CAS Number: 133545-16-1

Specifications & Purity: $\geq 97\%$

Lot #: F2205471

SKU #: R396776

Version: 2

Analysis #: 072747

Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Melting point	211-218 (°C)	214.38000 °C
Purity(HPLC)	97-100 (%)	97.03000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in Toluene})$	91-113 (°)	101.44000 °
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager