

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-14 17:32:19

Date of Next Testing: 2026-04-13 17:32:19

Product Name: (R)-(+)-7-Bis(3,5-di-*t*-butylphenyl)phosphino-7'-[(6-methylpyridine-2-ylmethyl)amino]-2,2',3,3''-tetrahydro-1,1''-spirobiindane

CAS Number: 1298133-26-2

Specifications & Purity: $\geq 98\%$, $\geq 99\%$ (ee)

Lot #: D23062107

SKU #: R282104

Version: 1

Analysis #: 186170

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

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	100.00000 %
Enantiomeric Excess	99-100 (%)	99.20000 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Appearance(R282104)	White solid	White Solid



John Su
QA & QC Manager