

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-25 14:39:13
 Date of Next Testing: 2026-12-24 14:39:13
 Product Name: (S,S)-(+)-2,3-Bis(t-butylmethylphosphino)quinoxaline
 CAS Number: 1107608-80-9
 Specifications & Purity: ≥98%
 Lot #: L2321334
 SKU #: S281834
 Version: 1
 Analysis #: 300012
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=1 in CHCl ₃)	50-59 (°)	58.79100°
Purity(HPLC area)	98-100 (%)	98.46300 %
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
Appearance(S281834)	White to Yellow to Brown powder to crystal	White to yellow to brown powder to crystal
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager