

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-13 12:16:27
Date of Next Testing: 2027-06-13 12:16:27
Product Name: **(S,S)-(+)-2,3-Bis(t-butylmethylphosphino)quinoxaline**
CAS Number: 1107608-80-9
Specifications & Purity: $\geq 98\%$
Lot #: F2406315
SKU #: **S281834**
Version: **1**
Analysis #: **361311**
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	98.52%
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in CHCL}_3)$	50-59 ($^{\circ}$)	58.76 $^{\circ}$
Appearance(S281834)	White to Yellow to Brown powder to crystal	White to yellow to brown powder to crystal
LC-MS for identification	Conforms	Conforms
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager