

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-06-27 10:21:52
 Date of Next Testing: 2024-06-16 10:21:52
 Product Name: (S)-(-)-2,2',6,6'-Tetramethoxy-4,4'-bis(diphenylphosphino)-3,3'-bipyridine
 CAS Number: 362524-23-0
 Specifications & Purity: ≥97%
 Lot #: F2223435
 SKU #: T121313
 Version: 0
 Analysis #: 098402
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity	97-100 (%)	98.00000 %
Nitrogen by Elemental Analysis	4.1-4.6 (%)	4.40000 %
Carbon by Elemental Analysis	68.3-73.3 (%)	70.30000 %
Specific Rotation [α] _{20/D} (c=1 CHCL ₃)	-102--94 (°)	-95.01000 °
Appearance (T121313)	White to Tan Crystal to Powder	White to Tan Crystal to Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager