

## Certificate of Analysis

Date of Testing: 2022-08-23 16:03:56  
Date of Next Testing: 2025-08-22 16:03:56  
Product Name: (S)-6,6'-Bis(diphenylphosphino)-2,2',3,3'-tetrahydro-5,5'-bibenzo[b][1,4]dioxine  
CAS Number: 503538-68-9  
Specifications & Purity: 97%  
Lot #: H2218740  
SKU #: S281903  
Analysis: 080076  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	98.58400 %
Proton NMR spectrum	Conforms to structure	Conforms to Structure
Phosphorus NMR spectrum	conforms to structure	Conforms to Structure
Mass spectrum	Conforms to standard	Conforms to standard



John Su  
QA & QC Manager