

## Certificate of Analysis

Date of Testing: 2023-02-28 19:36:25  
Date of Next Testing: 2026-02-27 19:36:25  
Product Name: (R)-(-)-1-[(R)-2-(2''-Diphenylphosphinophenyl)ferrocenyl]ethylbis(di-3,5-trifluoromethylphenyl)phosphine  
CAS Number: 565184-33-0  
Specifications & Purity: 97%  
Lot #: B2324444  
SKU #: R282446  
Analysis: 159673

Parameter	Limit Values	Result
Purity(HPLC area)	97-100 (%)	97.60%
Carbon by Elemental Analysis	56.39-62.32 (%)	57.54%
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager