

Certificate of Analysis

Date of Testing: 2024-04-10 14:36:44

Date of Next Testing: 2026-04-10 14:36:44

Product Name: **1,3-Bis(dicyclohexylphosphino)propane bis(tetrafluoroborate)**

CAS Number: 1002345-50-7

Specifications & Purity: $\geq 97\%$

Lot #: E2218049

SKU #: **B137919**

Analysis: **330111**

Parameter	Limit Values	Result
Melting point	178-183 (°C)	180.00000 °C
Purity(HPLC)	97-100 (%)	97.08500 %
Appearance (B137919)	White to Off-White to Yellow Powder or Crystals	White to Off-White to Yellow Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager