

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-23 15:26:48  
Date of Next Testing: 2025-06-22 15:26:48  
Product Name: (R)-1-[(SP)-2-(Diphenylphosphino)ferrocenyl]ethyldicyclohexylphosphine  
CAS Number: 155806-35-2  
Specifications & Purity:  $\geq 97\%$   
Lot #: H1926191  
SKU #: R138301  
Analysis: 105042  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	98.40500 %
Optical purity(ee)	99-100 (%)	99.86 %
Appearance (R138301)	Light Orange to Very Dark Orange Powder or Crystal	Light Orange to Very Dark Orange Powder or Crystal
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager