

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-11-20 11:32:22
Date of Next Testing:	2025-11-09 11:32:22
Product Name:	<b>1,1'-Bis(diphenylphosphino)ferrocene</b>
CAS Number:	12150-46-8
Specifications & Purity:	≥99%
Lot #:	B2223399
SKU #	<b>B396443</b>
Version	<b>2</b>
<b>Analysis #:</b>	<b>296945</b>
Storage Temperature:	Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	70.9-74.7 (%)	73.80 %
Purity(HPLC)	99-100 (%)	99.90000 %
Appearance (B396443)	Yellow to Dark Yellow and Orange to Dark Orange Powder	Yellow to Dark Yellow and Orange to Dark Orange Powder
Phosphorus NMR spectrum	conforms to structure	Conforms to Structure
Proton NMR spectrum	Conforms to structure	Conforms to Structure
Infrared spectrum	Conforms to structure	Conforms to Structure
ICP: Confirms Iron Component	Confirmed	Confirmed



John Su  
QA & QC Manager