

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-10-27 16:51:50
 Date of Next Testing: 2025-10-16 16:51:50
 Product Name: (+)-(S)-N,N-Dimethyl-1-[(R)-1',2-bis(diphenylphosphino)ferro
 CAS Number: 55650-59-4
 Specifications & Purity: 95%
 Lot #: D1622130
 SKU #: **S115631**
Analysis: **282027**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Optical purity(ee)	98-100 (%)	99.20%
Carbon by Elemental Analysis	68.6-77.3 (%)	71.32%
Nitrogen by Elemental Analysis	2-2.4 (%)	2.16%
Melting point	140-144 (°C)	141.60000 °C
Specific Rotation [α] ₂₀ /D(c=0.5 in CHCL ₃)	330-360 (°)	349.31 °
Purity(GC)	95-100 (%)	96.23%
Appearance (S115631)	Yellow to Dark Orange Powder	Yellow to Dark Orange Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager