

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-26 10:32:50  
Date of Next Testing: 2026-04-25 10:32:50  
Product Name: **N-Cbz-cis-4-Hydroxy-L-proline methyl ester**  
CAS Number: 57653-35-7  
Specifications & Purity: 97%  
Lot #: D2315752  
SKU #: **I171068**  
**Analysis: 153719**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
specific rotation [ $\alpha$ ] <sub>20/D</sub> (C=1%, in CDCI <sub>3</sub> )	-24~-16 (°)	-20.04100°
Purity(GC)	97-100 (%)	98.40%
Appearance(I171068)	White to Off-White Powder or Crystalline Powder	White to Off-White Powder or Crystalline Powder
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager