

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-23 13:42:27
Date of Next Testing: 2025-12-22 13:42:27
Product Name: **N-Cbz-cis-4-Hydroxy-L-proline methyl ester**
CAS Number: 57653-35-7
Specifications & Purity: 97%
Lot #: L2214329
SKU #: **I171068**
Analysis: **153719**
Storage Temperature: Room temperature

| Parameter | Limit Values | Result |
|-----------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| specific rotation [α] _{20/D} (C=1%, in CDC13) | -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