

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-03-21 13:19:30  
Date of Next Testing: 2026-03-20 13:19:30  
Product Name: **N-Cbz-L-4-Hydroxyproline methyl ester**  
CAS Number: 64187-48-0  
Specifications & Purity: 95%  
Lot #: C2211035  
SKU #: **H115890**  
**Analysis: 068769**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Density (20°C)	1.312-1.314	1.31
Purity(HPLC)	95-100 (%)	98.00600%
Specific Rotation [a] <sub>20</sub> /D(c=1.028g/100ml in CHCL <sub>3</sub> )	-71--66 (°)	-66.01°
Appearance (H115890)	colorless viscous liquid	colorless viscous liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager