

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-07-30 14:31:51  
 Date of Next Testing: 2030-07-29 14:31:51  
 Product Name: **Boc-4-Chloro-D-Phe-OH**  
 CAS Number: 57292-44-1  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: J2217042  
 SKU #: **B117073**  
 Version: **0**  
 Analysis #: **747982**  
 Storage Temperature: Room temperature

| Parameter                                                         | Limit Values                                  | Result                                        |
|-------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in Ethyl Acetate})$ | -26--22 ( $^{\circ}$ )                        | -25.90000 $^{\circ}$                          |
| Melting point                                                     | 108-112 ( $^{\circ}\text{C}$ )                | 111.60000 $^{\circ}\text{C}$                  |
| Purity(HPLC)                                                      | 97-100 (%)                                    | 99.90000 %                                    |
| Purity(Neutralization titration)                                  | 96.5-103.5 (%)                                | 99.90000 %                                    |
| Appearance (B117073)                                              | White to Off-White Solid, Powder, or Crystals | White to Off-White Solid, Powder, or Crystals |
| Proton NMR spectrum                                               | Conforms to Structure                         | Conforms to Structure                         |



John Su  
 QA & QC Manager