

## Certificate of Analysis

Date of Testing: 2022-08-03 21:15:39  
 Date of Next Testing: 2026-08-02 21:15:39  
 Product Name: **N-Carbobenzoxy-L-serine Benzyl Ester**  
 CAS Number: 21209-51-8  
 Specifications & Purity: >97.0%(HPLC)  
 Lot #: H2202395  
 SKU #: **N159609**  
 Analysis: **101835**

| Parameter                                                         | Limit Values                                  | Result                                        |
|-------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Melting point                                                     | 83-87 (°C)                                    | 84.04000 °C                                   |
| Purity(HPLC)                                                      | 97-100 (%)                                    | 99.46800 %                                    |
| Specific Rotation [α] <sub>20</sub> /D(c=1 in CHCL <sub>3</sub> ) | 4-6 (°)                                       | 5.04 °                                        |
| Appearance (N159609)                                              | 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