

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-22 23:11:37  
 Date of Next Testing: 2026-02-21 23:11:37  
 Product Name: **N-(Benzyloxycarbonyl)-D-serine- $\beta$ -lactone**  
 CAS Number: 98632-91-8  
 Specifications & Purity:  $\geq$ 98%  
 Lot #: B2316575  
 SKU #: **N405550**  
**Analysis: 145213**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter  | Limit Values                                | Result                                      |
|--|---|---|
| Purity(HPLC area)                                | 98-100 (%)                                  | 98.43 %                                     |
| Melting point                                    | 126-139 (°C)                                | 134.55000 °C                                |
| Specific rotation $[\alpha]_{20/D(C=1, CH_3CN)}$ | 21-30 (°)                                   | 29.87800 °                                  |
| Appearance(N405550)                              | White to Almost white powder to crystalline | White to Almost white powder to crystalline |
| NMR Spectrum 1H                                  | Conforms to Structure                       | Conforms to Structure                       |



John Su  
QA & QC Manager