

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-08-14 13:47:41  
 Date of Next Testing: 2025-08-13 13:47:41  
 Product Name: **N-Boc-L-serine  $\beta$ -lactone**  
 CAS Number: 98541-64-1  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: H2308184  
 SKU #: **N139510**  
 Version: **0**  
 Analysis #: **250608**  
 Storage Temperature: Store at  $-20^{\circ}\text{C}$ , Argon charged

| Parameter                                                                 | Limit Values          | Result                |
|---------------------------------------------------------------------------|-----------------------|-----------------------|
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in } \text{CH}_3\text{CN})$ | $-31--21^{\circ}$     | $-30.20000^{\circ}$   |
| Purity(HPLC)                                                              | 97-100 (%)            | 97.67300 %            |
| Proton NMR spectrum                                                       | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager