

## Certificate of Analysis

Date of Testing: 2023-02-22 21:33:05  
Date of Next Testing: 2026-02-21 21:33:05  
Product Name: **N-(Benzyloxycarbonyl)-D-serine- $\beta$ -lactone**  
CAS Number: 98632-91-8  
Specifications & Purity:  $\geq$ 98%  
Lot #: B2316553  
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