

## Analytical Data Sheet

Lot number **1000025795**  
not for drug use

Catalog number **A-1335.0025**  
Product number **4002168.0025**  
Product **Boc- D- Ser(Bzl) - OH**  
Molecular formula  $C_{15}H_{21}NO_5$   
Relative molecular mass 295.34

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	Rf value in agreement with authentic material
Melting point	57 °C
Specific optical rotation	$[\alpha]_D^{24} = -20.1 (^{\circ}) \times \text{cm}^3/(\text{g} \times \text{dm})$ ( 2 % EtOH 80 %)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-D-Ser(Bzl)-OH < 0.2% Boc-D-Ser-OH < 0.2% Boc-Ser(Bzl)-Ser(Bzl)-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.10% D-enantiomer
Assay (titration)	99.4% (TBAH)
Water content (KF volumetric)	< 0.1%

Latest update: December 10, 2019

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