

## Analytical Data Sheet

Lot number **1071917**  
not for drug use

Catalog number **A-1355.0100**  
Product number **4000026.0100**  
Product **Boc- Thr(Bzl) - OH**  
Molecular formula  $C_{16}H_{23}NO_5$   
Relative molecular mass 309.36

Tests	Results
Appearance	white to off-white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)  essentially clear solution (0.5 mmol/mL in dichlormethane)
Identification (ESI-MS)	m = 309.4u (average mass)
Identification (TLC)	complies with authentic material
Kaiser test	negative (yellow solution)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Thr(Bzl)-OH < 0.1% Boc-Thr-OH < 0.1% Boc-Thr(Bzl)-Thr(Bzl)-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 90/10/0.5/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-Thr < 0.1% L-allo-Thr < 0.1% D-allo-Thr
Other amino acids (GC)	< 0.3%
Assay (titration)	99.9% (TBAH)