

## Analytical Data Sheet

Lot number **1070445**  
not for drug use

Catalog number **B-1250.0001**  
Product number **4004993.0001**  
Product **Fmoc- D- Thr(tBu) - OH**  
Molecular formula  $C_{23}H_{27}NO_5$   
Relative molecular mass 397.47

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 397.5u (average mass)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.8% (TFA)
Related impurities (HPLC)	0.11% Fmoc-β-Ala-OH 0.02% Fmoc-β-Ala-D-Thr(tBu)-OH < 0.01% Fmoc-D-Thr-OH < 0.01% Fmoc-D-Thr(tBu)-D-Thr(tBu)-OH ≤ 0.05% each single unspecified
Related impurities (TLC)	< 0.1% H-D-Thr(tBu)-OH
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid/H <sub>2</sub> O 90/10/0.5/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	< 0.1% L-Threonin > 99.7% D-Threonin < 0.1% L-allo-Threonin < 0.1% D-allo-Threonin
Assay (titration)	99.7% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.006%