

## Analytical Data Sheet

Lot number **1000018754**  
not for drug use

Catalog number **B-3975.0001**  
Product number **4061392.0001**  
Product **Boc- Thr(Leu- Fmoc) - OH**  
Molecular formula  $C_{30}H_{38}N_2O_8$   
Relative molecular mass 554.64

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 554.5(average mass)
Purity (HPLC)	99.44%(TFA)
Related impurities (HPLC)	0.13%Fmoc-Leu-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% Boc-Thr-OH < 0.2% Boc-Thr(Leu-H)-OH
TLC conditions	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 90/10/0.5/1 plate: silicagel 60 F <sub>254</sub> detected: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	> 99.7% L-Thr < 0.1% D-Thr < 0.10% L-allo-Thr < 0.10% D-allo-Thr 0.22% D-Leu
Assay (titration)	94.4%(TBAH)
Water content (KF volumetric)	0.7%
Acetic acid content (IC)	0.015%