

Analytical Data Sheet

Lot number **1000030116**
not for drug use

Catalog number **B-3985.0001**
Product number **4061394.0001**
Product **Boc- Thr(Val- Fmoc) - OH**
Molecular formula $C_{29}H_{36}N_2O_8$
Relative molecular mass 540.61

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (ESI-MS)	m = 540.5u (average mass)
Purity (HPLC)	99.41% (TFA)
Related impurities (HPLC)	0.07% Fmoc-Val-OH not det. Fmoc-β-Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% Boc-Thr-OH < 0.2% Boc-Thr(Val-H)-OH
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 90/10/0.5/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (chiral chromatography)	> 99.7% L-Thr < 0.1% D-Thr isomer < 0.1% L-allo-Thr isomer < 0.1% D-allo-Thr isomer 0.2% D-Val isomer
Assay (titration)	94.6% (TBAH)
Water content (KF volumetric)	0.7%
Acetic acid content (IC)	0.005%