

Analytical Data Sheet

Lot number **1000021026**
not for drug use

Catalog number **B-1745.0005**
Product number **4015218.0005**
Product **Fmoc- Thr- OH**
Molecular formula $C_{19}H_{19}NO_5$
Relative molecular mass 341.36

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -5.4^\circ$ (1 % in methanol)
Purity (HPLC)	99.78% (TFA)
Related impurities (HPLC)	not det.% Fmoc- β -Ala-OH 0.04% Fmoc-Thr-Thr-OH 0.02% Fmoc- β -Ala-Thr-OH $\leq 0.04\%$ each single unspecified
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Thr-OH
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	> 99.7% L-Thr < 0.10% D-Thr < 0.10% L-allo-Thr < 0.10% D-allo-Thr
Other amino acids (GC)	< 0.20%
Assay (titration)	96.1% (TBAH)
Water content (KF volumetric)	4.8%
Acetic acid content (IC)	253mg/kg

Latest update: August 29, 2019

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