

Analytical Data Sheet

Lot number **1075613**
not for drug use

Catalog number **B-1260.0001**
Product number **4006924.0001**
Product **Fmoc- D- Tyr(tBu) - OH**
Molecular formula $C_{28}H_{29}NO_5$
Relative molecular mass 459.54

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) essentially clear solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	$m = 459.2u$ (monoisotopic mass)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.5%(TFA)
Related impurities (HPLC)	not det. Fmoc- β -Ala-OH 0.05% Fmoc-D-Tyr-OH 0.01% Fmoc- β -Ala-D-Tyr(tBu)-OH not det. Fmoc-D-Tyr(tBu)-D-Tyr(tBu)-OH ≤ 0.3 each single unspecified
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.05% H-D-Tyr(tBu)-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.3%
Enantiomer content (chiral chromatography)	0.1% L-enantiomer
Assay (titration)	98.4%(TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.010%

Latest update: February 21, 2018

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