

Analytical Data Sheet

Lot number **1071496**
not for drug use

Catalog number **B-1725.0005**
Product number **4014121.0005**
Product **Fmoc- N- Me- Phe- OH**
Molecular formula $C_{25}H_{23}NO_4$
Relative molecular mass 401.46

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (elemental analysis)	Theory Found C = 74.8% C = 74.8% H = 5.8% H = 5.9% N = 3.5% N = 3.5%
Identification (TLC)	complies with authentic material
Melting point	133 °C
Purity (HPLC)	99.9% (TFA)
Related impurities (HPLC)	not det. Fmoc-β-Ala-OH not det. Fmoc-Phe-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-N-Me-Phe-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (titration)	99.6% (TBAH)
Acetic acid content (IC)	≤ 0.002%