

Analytical Data Sheet

Lot number **1070449**
not for drug use

Catalog number **B-1025.0005**
Product number **4007989.0005**
Product **Fmoc- β - Ala- OH**
Molecular formula $C_{18}H_{17}NO_4$
Relative molecular mass 311.34

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 = 69.4% C = 69.0% H = 5.5% H = 5.6% N = 4.5% N = 4.3%
Identification (TLC)	complies with authentic material
Melting point	147.9°C
Purity (HPLC)	99.4% (TFA)
Purity (TLC)	> 99%
Related impurities (TLC)	< < 0.1% H- β -Ala-OH 0.2% Fmoc- β -Ala- β -Ala-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.3%
Assay (titration)	99.7% (TBAH)
Acetic acid content (IC)	< 0.002%