

Analytical Data Sheet

Lot number **1000053506**
not for drug use

Product Fmoc-Leu-OH
Product number **4003139.0025**
Molecular formula C₂₁H₂₃NO₄
Relative molecular mass 353.42

Tests	Results
Appearance	white powder
Appearance of solution	clear solution (0.5 mmol/mL in DMF)
Appearance of solution (Turbidimetry)	2.1 NTU (177 mg / mL in DMF)
Identification (ESI-MS)	m = 353.2u (monoisotopic mass)
Identification (TLC)	complies with authentic material
Specific optical rotation	[α] _D ²⁴ = - 24.9° (1% in DMF)
Purity (HPLC)	99.95% (TFA)
Related impurities (HPLC)	not det. Fmoc-β-Ala-OH < LOQ (0.02%) Fmoc-β-Leu-OH < LOQ (0.02%) Fmoc-Leu-Leu-OH < LOQ (0.02%) Fmoc-Ile-OH ≤ 0.03% each single unspecified
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.05% H-Leu-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	not det. < 0.007% (LOD)
Assay (titration)	99.7% (TBAH)
Water content (KF volumetric)	< 0.1%
Acetic acid content (IC)	36 mg/kg

Latest update: August 13, 2021

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