

Analytical Data Sheet

Lot number **1000028755**
not for drug use

Catalog number **B-1345.0500**
Product number **4003139.0500**
Product **Fmoc- Leu- OH**
Molecular formula $C_{21}H_{23}NO_4$
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)	2.4NTU (177 mg/mL in DMF)
Identification (ESI-MS)	m= 353.2u (monoisotopic mass)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -24.9^\circ$ (1% in DMF)
Purity (HPLC)	99.95% (TFA)
Related impurities (HPLC)	not det. Fmoc- β -Ala-OH < LOQ (0.02%) Fmoc- β -Ala-Leu-OH < LOQ (0.02%) Fmoc-Leu-Leu-OH < LOQ (0.02%) Fmoc-Ile-OH \leq 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)	99.6% (TBAH)
Water content (KF volumetric)	< 0.1%
Acetic acid content (IC)	26mg/kg

Latest update: February 20, 2020

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