

Analytical Data Sheet

Lot number **1064842**
not for drug use

Catalog number **B-1350.0005**
Product number **4005951.0005**
Product **Fmoc- D- Leu- OH**
Molecular formula $C_{21}H_{23}NO_4$
Relative molecular mass 353.42

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	157 °C
Specific optical rotation	$[\alpha]_D^{24} = +25.0^\circ$ (1 % in DMF)
Purity (HPLC)	99.8% (TFA)
Related impurities (HPLC)	0.1% Fmoc-D-Leu-D-Leu-OH < 0.1% Fmoc-β-Ala-D-Leu-OH < 0.1% Fmoc-β-Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-D-Leu-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, IRH
Enantiomer content (chiral chromatography)	< 0.1% L-enantiomer
Assay (titration)	100.7% (TBAH)
Water content (KF volumetric)	0.3%

Latest update: March 14, 2016

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