

Analytical Data Sheet

Lot number **1056902**
not for drug use

Catalog number **B-1630.0001**
Product number **4011893.0001**
Product **Fmoc- D- Ile- 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	149.6 °C
Specific optical rotation	$[\alpha]_D^{24} = + 11.7^\circ$ (1 % in DMF)
Purity (HPLC)	99.4%
Related impurities (HPLC)	0.1% Fmoc-β-Ala-OH 0.1% Fmoc-β-Ala-D-Ile-OH < 0.1% Fmoc-D-Ile-D-Ile-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-D-Ile-OH
TLC conditions	Chloroform/methanol/benzene/H ₂ O 8/8/8/1 Chloroform/methanol/acetic acid 90/8/2 Benzene/dioxane/acetic acid 95/25/4 Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	99.2% D-Isoleucin < 0.1% L-Isoleucin < 0.1% L-allo-Isoleucin 0.8% D-allo-Isoleucin
Assay (titration)	99.4% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	< 0.002%

Latest update: December 29, 2014

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