

Analytical Data Sheet

Lot number **1071161**
not for drug use

Catalog number **B-3050.0005**
Product number **4027404.0005**
Product **Fmoc- D- Lys(Fmoc) - OH**
Molecular formula $C_{36}H_{34}N_2O_6$
Relative molecular mass 590.68

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane)
Identification (elemental analysis)	Theory Found C = 73.2% C = 72.1% H = 5.8% H = 6.0% N = 4.7% N = 4.7%
Identification (TLC)	complies with authentic material
Melting point	155 °C
Specific optical rotation	$[\alpha]_D^{24} = +7.7^\circ$ (1% in dimethylformamide)
Purity (HPLC)	99.3% (TFA)
Purity (TLC)	> 98%
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (titration)	95.5% (TBAH)
Water content (KF volumetric)	0.1%

Latest update: April 07, 2017

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