

Analytical Data Sheet

Lot number

1045943

not for drug use

Catalog Number	B-3520.0025
Product number	4034189.0025
Product	Fmoc- Lys(Ac) - OH
Molecular formula	$C_{23}H_{26}N_2O_5$
Relative molecular mass	410.47

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (25 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.6% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Lys(Ac)-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 77.5/15/7.5 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	< 0.1% D-enantiomer
Assay (titration)	99.2% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	0.0070%
Residual organic solvents (GC)	dioxane not det. isopropanol not det. acetonitrile not det. ethylacetate 970 mg/kg
Latest update: December 13, 2012	