

## Analytical Data Sheet

Lot number **1055562**  
not for drug use

Catalog number **B-1080.0500**  
Product number **4003151.0500**  
Product **Fmoc- Lys(Boc) - OH**  
Molecular formula  $C_{26}H_{32}N_2O_6$   
Relative molecular mass 468.55

Tests	Results
Appearance	white fine powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) essentially clear solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	133 °C
Specific optical rotation	$[\alpha]_D^{24} = -12.2^\circ$ (2% in DMF)
Purity (HPLC)	99.6% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc- $\beta$ -Ala-OH 0.1% Fmoc- $\beta$ -Ala-Lys(Boc)-OH 0.1% Fmoc-Lys(Fmoc)-OH not det. Fmoc-Lys(Boc)-Lys(Boc)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Lys(Boc)-OH
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.2%
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (titration)	99.7% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.004%

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Latest update: September 26, 2014

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