

Analytical Data Sheet

Lot number **1059956**
not for drug use

Catalog number **B-2535.0001**
Product number **4025724.0001**
Product **Fmoc- Lys(Mtt) - OH**
Molecular formula $C_{41}H_{40}N_2O_4$
Relative molecular mass 624.78

Tests	Results
Appearance	slightly yellowish powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) clear, yellowish solution (0.5 mmol/ml in DMF)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = +4.7^\circ$ (1 % in methanol)
Purity (HPLC)	99.4% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-Lys-OH · HCl not det. Fmoc-β-Ala-OH < 0.1% Fmoc-Lys(Fmoc)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Lys(Mtt)-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.2% D-enantiomer
Assay (titration)	98.1% (TBAH)
Acetic acid content (IC)	0.025%