



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	04-1322
Lot Number	000201-4071
Product	N^{α}-Fmoc-N^{ϵ}-methyltrityl-L-lysine
	Fmoc-L-Lys(Mtt)-OH
CAS Number	167393-62-6
Molecular Formula	$C_{41}H_{40}N_2O_4$
Molecular Weight	624.79

Appearance	White crystals
Solubility	Clearly soluble (0.5 mmole in 1 ml DMF)
Melting Point	141-143 °C
Water Content (Karl Fisher)	0.14%
Optical Rotation	$[\alpha]_D^{20} = +3.36^{\circ}$ (C=1, in THF)
Infrared Spectrum	Conforms to structure
Residual Solvents	Ethyl acetate
Free Amino Acids	< 0.1% of the free amino acid
Assay	100%
Purity by HPLC	HPLC (265 nm) = 99.91%, HPLC (220 nm) = 99.94%; HPLC = Lichrospher C8; 125 x 4 mm; Gradient: A = 0.1% TFA in water; B = 0.1% TFA in acetonitrile, 30% B to 100% B in 30 min
Purity by TLC	> 99%
Chiral Purity	< 0.1% D-isomer
Storage	Store at 0-8°C