



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	04-1381
Lot Number	000424-190112-36101
Product	Fmoc-L-serine
	Fmoc-L-Ser-OH
CAS Number	73724-45-5
Molecular Formula	C ₁₈ H ₁₇ NO ₅
Molecular Weight	327.3

Appearance	White powder
Solubility	Clear solution (0.3g in 2mL DMF)
Melting Point	85.4 - 87.0 °C
Elemental Analysis (Theory)	< 5% (C, H, N)
Water Content (Karl Fisher)	5.073%
Optical Rotation	[α] _D ²⁰ = - 10.9 ° (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.060% (40 °C, 2h)
¹ H NMR	Conforms to structure
Chiral HPLC	99.54% (ee)
D-Enantiomer	0.4579%
Purity by HPLC	98.17%
Purity by TLC	> 98%
Storage	Store at RT

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