



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalog Number	04-1419
Product Name	Fmoc-Cys(Xan)-OH Fmoc-S-xanthyl-L-cysteine
Lot Number	303131
Molecular Formula	C <sub>31</sub> H <sub>25</sub> NO <sub>5</sub> S
Molecular Weight	523.58
Appearance	Off-white powder
Melting Point	189.5-191.5 °C
Optical Rotation	$\alpha_D^{25} = -26.4^\circ$ (C=1 in DMF)
Elemental Analysis (Theory)	Theory: C 71.11% H 4.81% N 2.68% S 6.12% Found: C 71.06% H 4.74% N 2.64% S 6.08%
Assay by TLC	
AcOEt/Hexane/AcOH 2/1/0.01 (v/v/v)	Rf = 0.59
MeCN/CHCl <sub>3</sub> /AcOH 8/1/1 (v/v/v)	Rf = 0.92
Plate: Kieselgel 60, Merck	Application 20-100 µg Detected by: UV, Ninhydrin, Ceric-molybdate Spray
Purity (HPLC)	98.1%
HPLC Conditions	
Column	Vydac C <sub>18</sub> , 218TP54 (4.6 mm ID x 250 mm L)
Buffer	A: TEAP pH = 6.4; B: MeCN
Detection	220 nm
Flow Rate	1 ml/min
Gradient	30% to 70% B in 40 min

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