



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalog Number	04-557
Product Name	Boc-Arg(Boc)₂-OH N ^{α,γ,γ} -Tri-Boc-L-arginine
Lot Number	1022976
Molecular Formula	C ₂₁ H ₃₈ N ₄ O ₈
Molecular Weight	474.56
Appearance	White powder
Solubility	Clear, colorless solution (50mg/ml in Methanol)
Specific Rotation (α²⁴_D)	-5.1° (1%, DMF)
Melting Point	118 °C
Identification by TLC	Complies to standard
Purity by TLC	≥ 97 %
Toluene/Dioxane/acetic acid 95/25/4	Plate: Silicagel 60 F254
CHCl₃/MeOH/toluene/H₂O (8/8/8/1)	Detected by: UV, ninhydrin, chlorine-tolidine
CHCl₃/MeOH/acetic acid/H₂O (45/13/1/2)	
Related impurities (TLC)	2% Boc-Arg(Boc)-OH; <0.2 % Boc-Arg-OH; <0.2% H-Arg-OH
Purity by HPLC	97.3 % (TFA)
Assay by titration	99.9 % (TBAH)
Storage	Store at -0°C