



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## *Certificate of Analysis*

Catalogue Number 04-557  
Lot Number 000127-1045523  
Product *N*<sup>α</sup>,*N*<sup>ω</sup>,*N*<sup>ω'</sup>-Tris-Boc-L-arginine

Boc-L-Arg(Boc)<sub>2</sub>-OH

CAS Number 97745-69-2  
Molecular Formula C<sub>21</sub>H<sub>38</sub>N<sub>4</sub>O<sub>8</sub>  
Molecular Weight 474.56

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Appearance White powder  
Appearance of Solution Clear, colorless solution (50 mg/mL in methanol)  
Melting Point 118 °C  
TLC System Toluene/Dioxane/Acetic acid (95:25:4)  
Chloroform/Methanol/Toluene/H<sub>2</sub>O (8:8:8:1)  
Chloroform/Methanol/Acetic acid/H<sub>2</sub>O (8:8:8:1)  
Plate: Silicagel 60 F<sub>254</sub>  
Detected by: UV, ninhydrin, Chlorine-Tolidine

Optical Rotation [α]<sub>D</sub><sup>24</sup> = - 5.1 ° (C=1 in DMF)  
Related Substances 2% Boc-Arg(Boc)-OH, < 0.2% Boc-Arg-OH, < 0.2% H-Arg-OH  
Assay by titration 99.9% (TBAH)  
Purity by HPLC 97.3% (TFA)  
Purity by TLC > 98%  
Storage Store at 0-8°C