



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number 04-557  
Lot Number 000127-1038755  
Product  $N^{\alpha}, N^{\omega}, N^{\omega'}$ -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 (50mg/mL in methanol)  
Melting Point 118 °C  
TLC System Chloroform/Methanol/Acetic acid (77.5:15:7.5)  
Chloroform/Methanol/Acetic acid/Water (45:13:1:2) Plate: Silica  
gel 60 F<sub>254</sub> Detected by: UV, Ninhydrin, chlorine-tolidine  
Optical Rotation  $[\alpha]_D^{24} = -5.1^{\circ}$  (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  $\geq 97\%$   
Storage Store at -0°C