

# Chem-Impex International, Inc.

---

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

---

## Certificate of Analysis

<b>Catalogue Number</b>	05452
<b>Lot Number</b>	000127-1038755
<b>Product</b>	<b><i>N</i><sup>α</sup>,<i>N</i><sup>ω</sup>,<i>N</i><sup>ω'</sup>-Tris-Boc-L-arginine</b> Boc-L-Arg(Boc) <sub>2</sub> -OH
<b>CAS Number</b>	97745-69-2
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>38</sub> N <sub>4</sub> O <sub>8</sub>
<b>Molecular Weight</b>	474.56

---

<b>Appearance</b>	White powder
<b>Appearance of Solution</b>	Clear, colorless solution (50 mg/mL in Methanol)
<b>Melting Point</b>	118 °C
<b>TLC System</b>	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 (45:13:1:2) Plate: Silicagel 60 F <sub>254</sub> Detected by: UV, ninhydrin, Chlorine-Tolidine
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = -5.1° (C=1 in DMF)
<b>Related Substances</b>	2% Boc-Arg(Boc)-OH, < 0.2% Boc-Arg-OH < 0.2% H-Arg-OH
<b>Assay by titration</b>	99.9% (TBAH)
<b>Purity by HPLC</b>	97.3% (TFA)
<b>Purity by TLC</b>	> 97%
<b>Storage</b>	Store at ≤ -15 °C

# *Certificate of Analysis*

Catalog Number: 05452

Lot Number: 000127-1038755

---

**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**