

# Chem-Impex International, Inc.

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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

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## Certificate of Analysis

**Catalogue Number** 04021  
**Lot Number** 000127-1056963  
**Product** **Boc-L-threonine N-hydroxysuccinimide ester**

Boc-L-Thr-OSu

**CAS Number** 63076-44-8  
**Molecular Formula** C<sub>13</sub>H<sub>20</sub>N<sub>2</sub>O<sub>7</sub>

**Molecular Weight** 316.31

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**Appearance** White powder  
**Solubility** Clear colorless solution (50 mg/mL in Dioxane)  
**Melting Point** 135 °C  
**Elemental Analysis (Theory)** C = 49.4%; H = 6.4%; N = 8.9%  
**Elemental Analysis (Found)** C = 49.4%; H = 6.5%; N = 8.7%  
**TLC System** Chloroform/Methanol/Toluene/H<sub>2</sub>O (8:8:8:1)  
Chloroform/Methanol/Acetic Acid (90:8:2)  
Plate: silicagel 60 F<sub>254</sub>  
detected by: UV, ninhydrin, chlorine-tolidine  
50% MeOH  
plate: RP-8  
detected by: UV, ninhydrin, chlorine-tolidine  
**Optical Rotation** [α]<sub>D</sub><sup>24</sup> = -32.2° (C=1 in EtOH)  
**Assay** 100.0% (Nth 49.36%, Nfd 49.38%)  
**Purity by TLC** Decomposes on TLC plate  
**Storage** Store at 0-8 °C

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**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**