

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03988
<b>Lot Number</b>	000127-1000035370
<b>Product</b>	<b>N<sup>a</sup>,N<sup>im</sup>-Bis-Boc-L-histidine N-</b> Boc-L-His(Boc)-OSu
<b>CAS Number</b>	25616-02-8
<b>Molecular Formula</b>	C <sub>20</sub> H <sub>28</sub> N <sub>4</sub> O <sub>8</sub>
<b>Molecular Weight</b>	452.46

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear colorless solution (50 mg/mL in Acetone)
<b>Melting Point</b>	126 °C
<b>Elemental Analysis (Found)</b>	C = 53.1% H = 6.0% N = 12.3%
<b>TLC System</b>	Toluene/Dioxane/Acetic acid (95:25:4) Chloroform/Ethylacetate/Acetic acid (50:50:2) Plate : silicagel 60 F <sub>254</sub> Detected by : UV, ninhydrin, TMB
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = 9.5 ° (C=1 in Ethylacetate)
<b>Assay</b>	99.6% (Nfd 12.33% by elemental analysis)
<b>Purity by TLC</b>	Decomposition on TLC plate
<b>Storage</b>	Store at 0 - 8 °C
<b>Remarks</b>	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