

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalog Number</b>	05129
<b>Product Name</b>	Boc-Phe(4-NH-2-CL-Z)-OH Boc-4-(2-chloro-Z-amino)-L-phenylalanine
<b>Lot Number</b>	5129-030100-V
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>25</sub> N <sub>2</sub> O <sub>8</sub> Cl
<b>Molecular Weight</b>	299.7
<b>Optical Rotation</b>	$\alpha_D = +19.4^\circ\text{C}$ (C=1 MeOH)
<b>TLC</b>	
<b>Chloroform:Methanol:Acetic acid</b>	90:8:2 R <sub>f</sub> = 0.72
<b>HPLC</b>	Purity 98.2 %, Vydac C <sub>18</sub> column, gradient elution 50-95% B in 25 min., t <sub>R</sub> 10.2 min, $\epsilon=214$ nm, flow rate 1ml/min, injection 1 $\mu$ l of 0.5% solution in methanol  A=Water:trifluoroacetic acid (100:0.5) B=Acetonitrile:Water:trifluoroacetic acid (83:17:0.038)
<b>Storage</b>	Store at 0-5°C.
<b>Remarks</b>	See material safety data sheets for additional information. For laboratory use only.

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



**Sashi Kumar**  
Quality Control Manager