

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalog Number</b>	05571
<b>Product Name</b>	Boc-N-Me-D-Phe(4-Cl)-OH Boc-N-methyl-4-chloro-D-phenylalanine
<b>Lot Number</b>	5571-3299-V
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>21</sub> ClNO <sub>4</sub>
<b>Molecular Weight</b>	313.8
<b>Melting Point</b>	80-82°C (crystals from hexanes)
<b>Optical Rotation</b>	$\alpha_D = 79.7^\circ\text{C}$ (C=1 Methanol)
<b>Chromatography:</b>	
<b>TLC</b>	
<b>Chloroform:methanol:Acetic acid</b>	90:10:2 R <sub>f</sub> = 0.65
<b>chloroform:methanol:Acetic acid</b>	85:10:5 R <sub>f</sub> = 0.73
<b>HPLC</b>	Purity 99.0 %, Vydac C <sub>18</sub> COLUMN, Gradient elution 40-80% B, t <sub>R</sub> 13.2 min, $\lambda = 214$ nm, flow rate 1ml/min, injection 1 $\mu$ l of 1 % solution in methanol  A=Water:trifluoroacetic acid (100:0.5) B=Acetonitrile:Water:trifluoroacetic acid (84:16:0.38)
<b>Storage</b>	Store below 0°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

