

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	15445
<b>Lot Number</b>	20080103
<b>Product</b>	<b>Boc-(S)-3-amino-3-(4-chlorophenyl)propionic acid</b> Boc-L- $\beta$ -Phe(4-Cl)-OH  (S)-Boc-4-chloro- $\beta$ -phenylalanine
<b>CAS Number</b>	479064-90-9
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>18</sub> ClNO <sub>4</sub>
<b>Molecular Weight</b>	299.75

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<b>Appearance</b>	White powder
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>25</sup> = -50.5° (C=1 in MeOH)
<b><sup>13</sup>C NMR</b>	Conforms to structure
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.65%
<b>Storage</b>	Store at 2-8 °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