

# Chem-Impex International, Inc.

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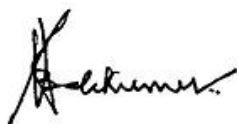
## Certificate of Analysis

<b>Catalogue Number</b>	15261
<b>Lot Number</b>	000424-171011-24216
<b>Product</b>	<b>Boc-(S)-3-amino-3-(4-bromophenyl)propionic acid</b> Boc-L-β-Phe(4-Br)-OH
<b>CAS Number</b>	261165-06-4
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>18</sub> BrNO <sub>4</sub>
<b>Molecular Weight</b>	344.2

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<b>Appearance</b>	White to off-white powder
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -46.0° (C=1 in EtOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Residual Solvents</b>	Not identified
<b>Related Substances</b>	Not identified
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	98% (ee)
<b>Other Enantiomer</b>	2%
<b>Purity by HPLC</b>	99%
<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