

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	16642
<b>Lot Number</b>	000705-35362
<b>Product</b>	<b>Boc-(R)-3-Thienylglycine</b> Boc-D-(3-thienyl)glycine
<b>CAS Number</b>	33130-97-1
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>15</sub> NO <sub>4</sub> S
<b>Molecular Weight</b>	257.31

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<b>Appearance</b>	Off-white powder
<b>TLC System</b>	Chloroform/Methanol/Acetic acid (90:8:2) Single spot Chloroform/Methanol/Benzene/Water (8:8:8:1) Single spot Visualized with UV/Iodine
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>25</sup> = -110.58 ° (C=1 in EtOH)
<b><sup>1</sup>H NMR</b>	Conforms the structure
<b>Chiral HPLC</b>	100% (ee)
<b>LCMS</b>	Conforms to structure
<b>L-Enantiomer</b>	Not detected
<b>Purity by HPLC</b>	98.7%
<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