

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	16639
<b>Lot Number</b>	000705-294562
<b>Product</b>	<b>Boc-(S)-2-thienylglycine</b> Boc-D-(2-thienyl)glycine
<b>CAS Number</b>	40512-56-9
<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>	Colorless oil
<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> = -94 ° (C=1 in EtOH)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>LCMS</b>	Conforms to structure
<b>Other Enantiomer</b>	< 2%
<b>Purity by HPLC</b>	99.8%
<b>Chiral Purity</b>	> 98% (ee)
<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