

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	02600
<b>Lot Number</b>	000424-150720-22232
<b>Product</b>	<b>Boc-(3R)-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid</b> Boc-D-Tic-OH
<b>CAS Number</b>	115962-35-1
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>19</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	277.3

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<b>Appearance</b>	White crystalline powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL Ethanol)
<b>Melting Point</b>	124.5-126.8 °C
<b>Water Content (Karl Fisher)</b>	0.23%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -18.6° (C=1% in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.11%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.12%
<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