

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 01386  
**Lot Number** 000424-160123-31701  
**Product** ***N*<sup>α</sup>-Boc-L-tryptophan**

Boc-L-Trp-OH

**CAS Number** 13139-14-5  
**Molecular Formula** C<sub>16</sub>H<sub>20</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight** 304.3

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**Appearance** White powder  
**Solubility** Clear solution (0.3g in 2ml DMF)  
**Melting Point** 131.8-132.8 °C  
**Elemental Analysis (Found)** < 5.0% (C,N,H)  
**Water Content (Karl Fisher)** 0.08%  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = -19.7° (C=2 in AcOH)  
**Infrared Spectrum** Conforms to standard  
**Analysis by Mass Spectra** Conforms to standard  
**Loss on Drying** 0.94% (60°C, 2h)  
**<sup>1</sup>H NMR** Conforms to standard  
**D-Enantiomer** 0.0077%  
**Purity by HPLC** 99.80%  
**Purity by TLC** > 98%  
**Storage** Store at 0-8 °C

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**Remarks**

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**