## Chem-Impex International, Inc.

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## Certificate of Analysis

Catalogue Number 06440

**Lot Number** 000424-170628-12504

Product  $N^{\alpha}$ -Z- $N^{\delta}$ -Boc-D-ornithine

Z-D-Orn(Boc)-OH

CAS Number 98264-52-9 Molecular Formula C<sub>18</sub>H<sub>26</sub>N<sub>2</sub>O<sub>6</sub>

Molecular Weight 366.4

**Appearance** White powder

**Solubility** Clear solution (0.3 g in 2mL DMF)

0.12%

**Melting Point** 100.8-102.3 °C

Water Content (Karl

Fisher)

**Optical Rotation** [a]<sub>D</sub><sup>20</sup> = + 3.1 ° (C=1 in DMF)

Infrared Spectrum Conforms to structure
Analysis by Mass Spectra Conforms to standard

**Loss on Drying** 0.06% (40°C,2h)

<sup>1</sup>H NMR Conforms to structure

L-Enantiomer 0.0232%
Purity by HPLC 99.06%
Chiral Purity 99.98% (ee)
Storage Store at 0-8 °C

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Catalog Number: 06440 Lot Number: 000424-170628-12504

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**