

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	01376
<b>Lot Number</b>	000424-131017-31403
<b>Product</b>	<b>Boc-D-proline</b> Boc-D-Pro-OH (R)-Boc-pyrrolidine-2-carboxylic acid
<b>CAS Number</b>	37784-17-1
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>17</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	215.3

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<b>Appearance</b>	White crystal
<b>Solubility</b>	Clear solution (0.3 gram in 2 ml DMF)
<b>Melting Point</b>	132.8 - 133.3 °C
<b>Water Content (Karl Fisher)</b>	0.051%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 60.3 ° (C=1 in AcOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.72% (60 °C for 2 hours)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	100% (ee)
<b>L-Enantiomer</b>	Not detectable
<b>Purity by HPLC</b>	99.36%
<b>Purity by TLC</b>	> 98%
<b>Storage</b>	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**