

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	06312
<b>Lot Number</b>	000424-170605-22158
<b>Product</b>	<b><i>N</i><sup>α</sup>-Fmoc-<i>N</i><sup>γ</sup>-Boc-D-2,4-diaminobutyric acid</b> Fmoc-D-Dab(Boc)-OH Fmoc- <i>N</i> <sup>γ</sup> -Boc-D-2,4-diaminobutyric acid
<b>CAS Number</b>	114360-56-4
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>28</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight</b>	440.5

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<b>Appearance</b>	White crystalline powder
<b>Solubility (Turbidity)</b>	Clear solution, 0.3g in 2ml DMF
<b>Melting Point</b>	125.6-126.1 °C
<b>Water Content (Karl Fisher)</b>	0.352%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +13.2° (C=1 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to structure
<b>Loss on Drying</b>	0.99%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Other Enantiomer</b>	0.0075%
<b>Purity by HPLC</b>	99.50%
<b>Storage</b>	Store at ≤ -18 °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