

# *Chem-Impex International, Inc.*

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**Manufacturing site:**

825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	04963
<b>Lot Number</b>	000424-170726-22196
<b>Product</b>	<b><i>N</i><sup>α</sup>-Boc-<i>N</i><sup>γ</sup>-Fmoc-L-2,4-diaminobutyric acid</b>

Boc-L-Dab(Fmoc)-OH

<b>CAS Number</b>	117106-21-5
<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 powder
<b>Solubility</b>	Clear solution (0.3 g in 2 ml DMF)
<b>Melting Point</b>	128.6 - 129.7 °C
<b>Water Content (Karl Fisher)</b>	0.22%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = - 15.6 ° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.20% (50°C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.90%
<b>Storage</b>	Store at 0-8°C

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**Lot Number: 000424-170726-22196**

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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**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**