

# ***Chem-Impex International, Inc.***

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825 Dillon Drive

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## ***Certificate of Analysis***

<b>Lot Number</b>	000129-190828
<b>Catalogue Number</b>	05120
<b>Product</b>	<b><i>N</i><sup>α,β</sup>-Bis-Fmoc-D-2,3-diaminopropionic acid</b>
	Fmoc-D-Dap(Fmoc)-OH
<b>CAS Number</b>	1217631-22-5
<b>Molecular Formula</b>	C <sub>33</sub> H <sub>28</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight</b>	548.58

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<b>Appearance</b>	Off-white crystalline powder
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 14 ° (C=1 in DMF)
<b>Residual Solvents</b>	Ethyl acetate, Methyl tert-butyl ether
<b>Assay by titration</b>	95.4%
<b>Chiral HPLC</b>	99.9% (ee)
<b>L-Enantiomer</b>	0.1%
<b>Purity by HPLC</b>	99.2%
<b>Purity by TLC</b>	> 99%
<b>Storage</b>	Store at 0 - 8 °C
<b>Country of Origin</b>	Latvia
<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**