

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	01964
<b>Lot Number</b>	000424-210310-36401
<b>Product</b>	<b><i>N</i><sup>α</sup>-Fmoc-<i>N</i><sup>ω</sup>-(2,2,4,6,7-pentamethyldihydro-Fmoc-L-Arg(Pbf)-OH</b>
<b>CAS Number</b>	154445-77-9
<b>Molecular Formula</b>	C <sub>34</sub> H <sub>40</sub> N <sub>4</sub> O <sub>7</sub> S
<b>Molecular Weight</b>	648.77

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL DMF)
<b>Elemental Analysis (Found)</b>	< 5% (C, H, N)
<b>Water Content (Karl Fisher)</b>	0.10%
<b>Kaiser Test</b>	< 0.05%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>25</sup> = -5.5 ° (C=4 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.11% (50 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	99.98% (ee)
<b>D-Enantiomer</b>	0.0167%
<b>Purity by HPLC</b>	99.32%
<b>Purity by TLC</b>	> 98%
<b>Storage</b>	Store at 0 - 8 °C

# *Certificate of Analysis*

Catalog Number: 01964

Lot Number: 000424-210310-36401

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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**