

# *Chem-Impex International, Inc.*

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## *Certificate of Analysis*

<b>Catalogue Number</b>	05751
<b>Product</b>	<b>Fmoc-4-amino-L-phenylalanine</b>

<b>Lot Number</b>	000424-160314-20303 Fmoc-L-Phe(4-NH <sub>2</sub> )-OH
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<b>CAS Number</b>	95753-56-3
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>22</sub> N <sub>2</sub> O <sub>4</sub>

<b>Molecular Weight</b>	402.5
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<b>Appearance</b>	Light yellowish powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL DMF)
<b>Melting Point</b>	193.3-194.8 °C
<b>Elemental Analysis (Found)</b>	< 5.0% (C,H,N)
<b>Water Content (Karl Fisher)</b>	0.373%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = - 11.0° (C=3 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	1.22% (100 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.15%
<b>Purity by TLC</b>	> 98.0%
<b>Storage</b>	Store at 0-8 °C

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**Lot Number: 000424-160314-20303**

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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**