

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	02482
<b>Lot Number</b>	000424-201226-36105
<b>Product</b>	<b>Fmoc-O-tert-butyl-D-serine</b> Fmoc-D-Ser(tBu)-OH
<b>CAS Number</b>	128107-47-1
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>25</sub> NO <sub>5</sub>
<b>Molecular Weight</b>	383.4

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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>	129.4 - 130.3 °C
<b>Elemental Analysis (Found)</b>	< 5% (C, H, N)
<b>Water Content (Karl Fisher)</b>	0.06%
<b>Kaiser Test</b>	< 0.05%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -24.3 ° (C = 1 in EtOAc)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.10% (60 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	99.93% (ee)
<b>L-Enantiomer</b>	0.0690%
<b>Purity by HPLC</b>	99.76%
<b>Purity by TLC</b>	> 98%
<b>Storage</b>	Store at 0 - 8 °C

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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**