



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number	04-1202
Product	<b>Fmoc-D-aspartic acid <math>\alpha</math>-tert-butyl ester</b>
Lot Number	000424-140702-36511 Fmoc-D-Asp-OtBu
CAS Number	134098-70-7
Molecular Formula	C <sub>23</sub> H <sub>25</sub> NO <sub>6</sub>
Molecular Weight	411.5

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Appearance	White powder
Solubility	Clear solution (0.3 g in 2 ml DMF)
Melting Point	106.0-107.5 °C
Water Content (Karl Fisher)	0.187%
Optical Rotation	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = +23.9° (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.12% (50 °C for 2 hours)
<sup>1</sup> H NMR	Conforms to structure
Purity by HPLC	99.10%
Storage	Store at 0-8 °C

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