

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03693
<b>Product</b>	<b>Fmoc-L-aspartic acid <math>\alpha</math>-4-[N-{1-(4,4-dimethyl-2,6-dioxocyclohexylidene)-3-methylbutyl}amino]benzyl ester</b>
<b>Lot Number</b>	001773-1701 Fmoc-L-Asp-ODmab
<b>CAS Number</b>	172611-77-7
<b>Molecular Formula</b>	C <sub>39</sub> H <sub>42</sub> N <sub>2</sub> O <sub>8</sub>
<b>Molecular Weight</b>	666.7

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<b>Appearance</b>	Yellow powder
<b>Solubility</b>	Clear yellow solution (1 mmol in 2 mL DMF)
<b>Water Content (Karl Fisher)</b>	0.3%
<b>TLC System</b>	Chloroform/Methanol/Acetic acid/Water (90:10:0.5:1) Chloroform/Methanol/Acetic acid 32% (15:4:1)
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>25</sup> = - 17.0 (C=1 in DMF)
<b><sup>13</sup>C NMR</b>	Conforms to structure
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>D-Enantiomer</b>	0.1%
<b>Purity by HPLC</b>	98%
<b>Purity by TLC</b>	> 97%
<b>Storage</b>	Store at $\leq -15$ °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**