

# Chem-Impex International, Inc.

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Manufacturing site:

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## Certificate of Analysis

**Catalogue Number** 03638  
**Lot Number** 000129-12188  
**Product** **Fmoc-L-aspartic acid  $\alpha$ -allyl ester**

Fmoc-L-Asp-OAll

**CAS Number** 144120-53-6  
**Molecular Formula** C<sub>22</sub>H<sub>21</sub>NO<sub>6</sub>

**Molecular Weight** 395.4

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**Appearance** White crystalline powder  
**Melting Point** 120-122 °C  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = -24.1° (C=1 in DMF)  
**Residual Solvents** Ethyl acetate, DIPE, Hexane  
**Assay by titration** 97.5%  
**Purity by HPLC** 99.2%  
**Purity by TLC** > 99%  
**Storage** Store at ≤ -18 °C

**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**