

# Chem-Impex International, Inc.

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**Manufacturing site:**

825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	02386
<b>Product</b>	<i>N</i> <sup>α</sup> -Fmoc- <i>N</i> <sup>γ</sup> -trityl-L-asparagine
<b>Lot Number</b>	000424-160719-35102 Fmoc-L-Asn(Trt)-OH
<b>CAS Number</b>	132388-59-1
<b>Molecular Formula</b>	C <sub>38</sub> H <sub>32</sub> N <sub>2</sub> O <sub>5</sub>
<b>Molecular Weight</b>	596.7

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<b>Appearance</b>	White to off-white powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL MeOH)
<b>Melting Point</b>	203.1-205.1 °C
<b>Water Content (Karl Fisher)</b>	0.364%
<b>Kaiser Test</b>	< 0.05%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -14.6 ° (C=1 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.16% (80 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	100% (ee)
<b>D-Enantiomer</b>	Not detected
<b>Purity by HPLC</b>	99.69%
<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**