

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	15135
<b>Lot Number</b>	000424-170503-20278
<b>Product</b>	<b>Fmoc-<math>\beta</math>-cyano-L-alanine</b>
	Fmoc- $\beta$ -Cyano-L-Ala-OH
<b>CAS Number</b>	127273-06-7
<b>Molecular Formula</b>	C <sub>19</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight</b>	336.34

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<b>Appearance</b>	White to off-white powder
<b>Solubility</b>	Clear solution (0.5 mmol/mL in DMF)
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = -29 ° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Residual Solvents</b>	Not identified
<b>Related Substances</b>	Not identified
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	99.1% (ee)
<b>D-Enantiomer</b>	1.9%
<b>Purity by HPLC</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**