Chem-Impex International, Inc.

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Manufacturing site: 935 Dillon Drive 825 Dillon Drive Wood Dale, IL 60191 Wood Dale, IL 60191

Certificate of Analysis

35200 **Catalogue Number**

000424-191106-21340 **Lot Number**

Product Fmoc-cis-L-4-hydroxyproline

Fmoc-L-cis-Hyp-OH

CAS Number 189249-10-3 $C_{20}H_{19}NO_{5}$ **Molecular Formula** Molecular Weight 353.38

White powder **Appearance**

Solubility Clear solution (0.3 g in 2 mL DMF)

1.11%

86.9 - 88.6 °C **Melting Point**

Water Content (Karl

Fisher)

 $[a]_D^{20} = -35.2 \circ (C=1 \text{ in DMF})$

Optical Rotation Infrared Spectrum Conforms to structure

Conforms to standard **Analysis by Mass Spectra**

Loss on Drying 2.13% (40 °C, 2h) **Residual Solvents** Ethyl acetate: 4.3% ¹H NMR Conforms to structure

98.03% **Purity by HPLC**

Store at 0-8 °C **Storage**

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