Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number 02602

Lot Number 000424-200318-22258

Product Fmoc-(3R)-1,2,3,4-tetrahydroisoguinoline-3-

Fmoc-D-Tic-OH

CAS Number 130309-33-0 **Molecular Formula** C₂₅H₂₁NO₄

Molecular Weight 399.4

Appearance White powder

Solubility Clear solution (0.3 g in 2 mL DMF)

Melting Point 160.7 - 161.2 °C

Elemental Analysis < 5% (C, H, N)

(Found)

Water Content (Karl 0.74%

Fisher)

Optical Rotation [a]_D²⁰ = -27 ° (C=1 in MeOH)

Infrared Spectrum Conforms to structure
Analysis by Mass Spectra Conforms to standard

Loss on Drying 1.40% (70 °C, 2h)

¹H NMR Conforms to structure

 Chiral HPLC
 99.51% (ee)

 L-Enantiomer
 0.4852%

 Purity by HPLC
 99.85%

 Purity by TLC
 > 98%

Storage 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