Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

Shipping and Correspondence:935 Dillon Drive
825 Dillon Drive

Wood Dale, IL 60191 Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 02480

Product N^{α} -Fmoc- N^{δ} -trityl-D-glutamine

Lot Number 000424-180117-36606

Fmoc-D-Gln(Trt)-OH

CAS Number 200623-62-7 **Molecular Formula** C₃₉H₃₄N₂O₅

Molecular Weight 610.7

Appearance White powder

Solubility Clear solution (0.3 g in 2 ml DMF)

0.258%

Melting Point 124.7 - 140.6 °C

Elemental Analysis < 5.0% (C, N, H)

(Found)

Water Content (Karl

Fisher)

Kaiser Test < 0.05%

Optical Rotation [a]_D²⁰ = 16.1 ° (C=1 in DMF)

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

Loss on Drying 0.51% (50 °C, 2h) **1H NMR** Conforms to structure

 Chiral HPLC
 99.93% (ee)

 L-Enantiomer
 0.0632%

 Purity by HPLC
 99.61%

Storage Store at 0 - 8 °C

Certificate of Analysis

Catalog Number: 02480 Lot Number: 000424-180117-36606

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