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:

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

Certificate of Analysis

31951 **Catalogue Number**

Product Fmoc-β-tert-butvl-D-alanine

000424-170620-23102 **Lot Number**

Fmoc-β-tBu-D-Ala-OH

CAS Number 359766-58-8 $C_{22}H_{25}NO_4$ **Molecular Formula** Molecular Weight 367.44

White to off-white powder/solid **Appearance** $[a]_D^{20} = 17.48 \circ (C=1 \text{ in DMF})$ **Optical Rotation**

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

Residual Solvents Not identified **Related Substances** Not identified

¹H NMR Conforms to structure

Chiral HPLC 100% (ee) L-Enantiomer Not detected

99.9% **Purity by HPLC**

Store at 0 - 8 °C **Storage**

See material safety data sheet for additional information **Remarks**

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar

Quality Control Manager