## **Chem-Impex International, Inc.**

Tel: (630) 766-2112 E-mail: sales@chemimpex.com Shipping and Correspondence: 935 Dillon Drive Wood Dale, IL 60191 Fax: (630) 766-2218 Web site: www.chemimpex.com Manufacturing site: 825 Dillon Drive Wood Dale, IL 60191

## Certificate of Analysis

<b>Catalogue Number</b>	15661
Product	Fmac.(S)-3-amina-3-(A-hydravynhanyl)
Lot Number	000424-200424-23043
	Fmoc-L-β-Phe(4-OH)-OH
CAS Number	501015-33-4
Molecular Formula	$C_{24}H_{21}NO_5$
Molecular Weight	403.43

Appearance	White powder
<b>Optical Rotation</b>	$[a]_{D}^{20} = -38 \circ (C=1 \text{ in DMF})$
Analysis by Mass Spectra	Conforms to standard
<b>Residual Solvents</b>	Not identified
<b>Related Substances</b>	Not identified
<sup>1</sup> H NMR	Conforms to structure
Chiral HPLC	99.6% (ee)
<b>Other Enantiomer</b>	0.4%
Purity by HPLC	98.4%
Storage	Store at 0 - 8 °C

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

likumer.

Bala Kumar Quality Control Manager