## Chem-Impex International, Inc.

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## Certificate of Analysis

Catalogue Number 03727

**Lot Number** 000424-211201-22377

**Product** Fmoc-D-norvaline

Fmoc-D-Nva-OH

CAS Number 144701-24-6 Molecular Formula C<sub>20</sub>H<sub>21</sub>NO<sub>4</sub>

Molecular Weight 339.4

**Appearance** White powder

**Solubility** Clear solution (0.3 g in 2 mL DMF)

0.55%

**Melting Point** 150.8 - 153.1 °C

Water Content (Karl

Fisher)

**Optical Rotation** 

 $[a]^{20}_D = 20.1 \circ (C=1 \text{ in DMF})$ 

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

**Loss on Drying** 0.23% (50 °C, 2h) **1H NMR** Conforms to structure

Purity by HPLC 99.95%

**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

**Bala Kumar** 

**Quality Control Manager**