## 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 03034

**Lot Number** 000424-140519-13072

Product  $N^{\alpha}$ -Tosyl-L-arginine methyl ester

hydrochloride

Tos-L-Arg-OMe•HCl

**CAS Number** 1784-03-8

**Molecular Formula** C<sub>14</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub>S·HCl

**Molecular Weight** 378.9

**Appearance** White powder

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

**Melting Point** 146.2-147.4 °C

Water Content (Karl 0.388%

Fisher)

**Optical Rotation** [a] $_{D}^{20} = +10.2^{\circ}$  (C=1 in EtOH)

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

**Loss on Drying** 0.45%

<sup>1</sup>**H NMR** Conforms to structure

Purity by HPLC 98.86%

**Storage** Store at 0-8 °C

## Certificate of Analysis

Catalog Number: 03034 Lot Number: 000424-140519-13072

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**