## Chem-Impex International, Inc.

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825 Dillon Drive
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## Certificate of Analysis

Catalogue Number 06042

**Lot Number** 000424-150514-16061

Product L-Glutamic acid diethyl ester hydrochloride

L-Glu(OEt)-OEt•HCl

**CAS Number** 1118-89-4 **Molecular Formula** C<sub>9</sub>H<sub>17</sub>NO<sub>4</sub>·HCl

**Molecular Weight** 239.7

**Appearance** White crystalline powder

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

0.198%

**Melting Point** 102-109 °C

Water Content (Karl

Fisher)

**Optical Rotation** [a] $_D^{20} = +25.5^{\circ}$  (C=2, EtOH)

Infrared Spectrum Conforms to standard
Analysis by Mass Spectra Conforms to standard
TH NMR Conforms to standard

Purity by HPLC 99.81%

**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**