Chem-Impex International, Inc.

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Shipping and Correspondence: Manufacturing site:

935 Dillon Drive 825 Dillon Drive Wood Dale, IL 60191 Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 02162

Lot Number 000630-09921

Product Z-L-glutamic acid γ-tert-butyl ester

Z-L-Glu(OtBu)-OH

CAS Number 3886-08-6 Molecular Formula C₁₇H₂₃NO₆

Molecular Weight 337.4

Appearance White powder

TLC System < 0.1% H-Glu(OtBu)-OH
Optical Rotation - 15.3 ° (C=1 in MeOH)

Analysis by Mass Spectra $[M+H]^+ = 337.9$

Assay 100.8% **D-Enantiomer** < 0.1% **Purity by HPLC** 99.6%

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