## Chem-Impex International, Inc.

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## Certificate of Analysis

Catalogue Number 04448
Lot Number 20071010

935 Dillon Drive

Product D-Pyroglutamic acid ethyl ester

D-Pyr-OEt

(R)-5-Oxopyrrolidine-2-carboxylic acid ethyl ester

825 Dillon Drive

**CAS Number** 68766-96-1 **Molecular Formula** C<sub>7</sub>H<sub>11</sub>NO<sub>3</sub>

**Molecular Weight** 157.2

**Appearance** Pale yellow crystal

**Optical Rotation** [a]<sub>D</sub><sup>20</sup> = -5.5° (C=1 in EtOH)

13C NMR Conforms to structure
 1H NMR Conforms to structure

Purity > 98% (NMR) 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**