## Chem-Impex International, Inc.

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## Certificate of Analysis

Catalogue Number 03129

**Lot Number** 000424-140218-10854

Product D-Proline benzyl ester hydrochloride

 $\text{D-Pro-OBzl} \bullet \text{HCl}$ 

(R)-Pyrrolidine-2-carboxylic acid benzyl ester hydrochloride

CAS Number 53843-90-6 Molecular Formula C<sub>12</sub>H<sub>15</sub>NO<sub>2</sub>·HCl

**Molecular Weight** 241.7

**Appearance** White powder

**Solubility** Clear, solution (0.3 gram in 2 mL DMF)

0.389%

Melting Point 140.0-140.8 °C

**Water Content (Karl** 

Fisher)

**Optical Rotation** [a] $^{20}D = +42.5^{\circ}$  (C=1 in MeOH)

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

Loss on Drying 0.90%

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

Purity by HPLC 98.34%

**Storage** Store at 0-8°C

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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**