



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

|                          |   |
|--------------------------|---|
| Catalogue Number         | 04-1822   |
| Lot Number               | 120205-21317  |
| Product                  | <b>L-4-<i>trans</i>-Hydroxyproline ethyl ester hydrochloride</b><br>L-Hyp-OEt•HCl<br>(2 <i>S</i> ,4 <i>R</i> )-(-)-Ethyl 4-hydroxy-2-pyrrolidin-carboxylate hydrochloride |
| CAS Number               | 33996-30-4  |
| Molecular Formula        | C <sub>7</sub> H <sub>13</sub> NO <sub>3</sub> •HCl   |
| Molecular Weight         | 195.62  |
| Appearance               | White powder  |
| Solubility               | Clear Solution (0.3g/2ml H <sub>2</sub> O)  |
| Melting Point            | 152.1-153.4 °C  |
| Optical Rotation         | [α] <sub>D</sub> <sup>20</sup> = -27.4° (C=1 in H <sub>2</sub> O)   |
| Infrared Spectrum        | Conforms to structure   |
| Analysis by Mass Spectra | Conforms to structure   |
| Loss on Drying           | 0.11% (60 °C, 2h)   |
| <sup>1</sup> H NMR       | Conforms to structure   |
| Purity by HPLC           | 99.48%  |
| Storage                  | Store at 2-8 °C   |