



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

Catalogue Number 04-2218  
Lot Number 000424-181107-17022  
Product **L-Ornithine ethyl ester dihydrochloride**

L-Orn-OEt•2HCl

CAS Number 84772-29-2  
Molecular Formula  $C_7H_{16}N_2O_2 \cdot 2HCl$   
Molecular Weight 233.19

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Appearance White powder  
Solubility Clear solution (0.3 g in 2 ml MeOH)  
Melting Point 172.4 - 173.8 °C  
Water Content (Karl Fisher) 0.44%  
Optical Rotation  $[a]_D^{20} = + 17.6^\circ$  (C=1 in MeOH)  
Infrared Spectrum Conforms to structure  
Analysis by Mass Spectra Conforms to standard  
Loss on Drying 0.14% (80°C, 2h)  
<sup>1</sup>H NMR Conforms to structure  
Purity by HPLC 99.54%  
Storage Store at 0-8 °C

Prepared by:

*Ramesh Mandadi*

Ramesh Mandadi  
Director of Operations

Reviewed and approved by:

*Sujata Moton*

S. Moton  
VP