



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

Catalogue Number 04-2015  
Lot Number 000424-120712-13016  
Product **H-D-Lys(Z)-OH**

N<sup>ε</sup>-Z-D-lysine

CAS Number 34404-32-5  
Molecular Formula C<sub>14</sub>H<sub>20</sub>N<sub>2</sub>O<sub>4</sub>  
Molecular Weight 280.3

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Appearance White powder  
Solubility Clear solution (0.3 gram in 2 mL TFA)  
Melting Point 231.6-233.0 °C  
Water Content (Karl Fisher) 0.21%  
Optical Rotation  $[\alpha]_D^{20} = -14.8^\circ$  (C=0.5 in 1N HCl)  
Infrared Spectrum Conforms to structure  
Analysis by Mass Spectra Conforms to structure  
Loss on Drying 0.14% (80°C, 2h)  
<sup>1</sup>H NMR Conforms to structure  
Purity by HPLC 98.23%  
Storage Store at 2-8 °C