



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalog Number	BIO-410
Product Name	L-Proline
Lot Number	040610
CAS Registry Number	147-85-3
Molecular Formula	C ₅ H ₉ NO ₂
Molecular Weight	115.14
Appearance	White powder
State of solution (Transmittance)	98.5%
Assay	99.80%
pH	6.2
Optical Rotation	$\alpha_{D}^{20} = -85^{\circ}$
TLC	> 98%
Moisture content (KF)	< 0.2%
Loss on Drying	0.16%
Residue on Ignition (Sulfated)	0.05%
Chloride (Cl)	0.010%
Sulfate (SO ₄)	0.012%
Ammonium (NH ₄)	0.015%
Arsenic (As ₂ O ₃)	0.5ppm
Iron (Fe)	5 ppm
Heavy Metals (Pb)	6 ppm
Other Amino acids	Not detected