



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	04-2034
Lot Number	001192-8002814064
Product	L-Lysine hydrate
	L-Lys-OH•H ₂ O
	(S)-2,6-Diaminohexanoic acid monohydrate
CAS Number	39665-12-8
Molecular Formula	C ₆ H ₁₄ N ₂ O ₂ •H ₂ O
Molecular Weight	164.2

Appearance	White to primrose yellow crystalline powder
Heavy Metals	< 10 ppm (as Pb)
Arsenic (As ₂ O ₂)	< 1 ppm
Anion	Chloride (Cl ⁻): < 0.020% Sulfate (SO ₄ ²⁻): < 0.020%
Cation	Ammonium (NH ₄): < 0.020% Iron (Fe): < 10 ppm
Optical Rotation	[α] _D ²⁰ = +23.2° (C=2 in 6N HCl)
Infrared Spectrum	Conforms to structure
Transmission	> 95.0%
Loss on Drying	9.5%
Other Amino Acids	Chromatographically not detectable
Residue On Ignition	0.06%
Assay by titration	99.4%
Storage	Store at RT