



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalog Number	04-2220
Product Name	D-Ornithine monohydrochloride
Lot Number	QXA0004
CAS Registry Number	16682-12-5
Molecular Formula	$C_5H_{12}N_2O_2 \cdot HCl$
Molecular Weight	168.6
Assay	99.8%
Solubility in Water	Colorless & Clear (c=5)
Specific Rotation (α_D^{20})	-23.5° (c=4, 6N HCl)
Loss on Drying	0.02%
Residue on Ignition (as Sulfate)	0.02%
Sulfate (SO ₄)	≤0.03%
Heavy Metals (as Pb)	≤10ppm
Iron (Fe)	≤10ppm
Ammonium (NH ₄)	≤0.02%
Arsenic (As)	≤1ppm
Other Amino Acids	Not detected by TLC (The spotted amount, 10μg)