

Certificate of Analysis

Date of Testing:	2024-01-30 16:08:10
Date of Next Testing:	2027-01-29 16:08:10
Product Name:	L-Ornithine monohydrochloride
CAS Number:	3184-13-2
Specifications & Purity:	BioReagent Plus , ≥99%
Lot #:	A2429185
SKU #	L432617
Analysis:	313250

Parameter	Limit Values	Result
Purity(HPLC area)	99-100 (%)	99.36 %
Residue on Ignition	0-0.1 (%)	0.08993 %
Insoluble matter	0-0.1 (%)	0.00 %
Sulfate(SO42-)	0-0.05 (%)	0.00 %
Aluminum(Al)	0-0.0005 (%)	0.00 %
Phosphorus (P)	0-0.005 (%)	0.00 %
Lead(Pb)	0-0.001 (%)	0.00 %
Iron(Fe)	0-0.0005 (%)	0.00 %
Copper(Cu)	0-0.0005 (%)	0.00 %
Zinc(Zn)	0-0.0005 (%)	0.00 %
Calcium(Ca)	0-0.005 (%)	0.00 %
Magnesium(Mg)	0-0.0005 (%)	0.00 %
Sodium(Na)	0-0.005 (%)	0.00 %
Potassium(K)	0-0.005 (%)	0.00 %
Ammonia (NH4)	0-0.05 (%)	0.05 %
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms
Appearance(L432617)	White Powder	White powder
Solubility (1 M in H2O at 20°C,Colorless to Very Faint Yellow Clear)	pass	Pass



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager