

Shanghai yuanye Bio-Technology Co., Ltd

465 Changta Road, SongJiang District, Shanghai 201604, China

Certificate of Analysis

Date of Testing: 2026-03-24 18:39:08

Date of Next Testing: 2030-03-23 18:39:08

Product Name: **L-Arginine**

CAS Number: 74-79-3

Specifications & Purity: Animal Free, USP, Ph.Eur., for cell culture, ≥98.5%

Lot #: C2616030

SKU #: **V32815**

Version: **0**

Analysis #: **681618**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Chloride (Cl-)	0-0.05 (%)	0.03 %
Iron(Fe)	0-30 (ppm)	15.00 ppm
Heavy metals	0-10 (ppm)	8.00 ppm
Sulfate(SO42-)	0-0.03 (%)	0.01 %
Nitrogen by Elemental Analysis	31.5-32.5 (%)	31.90 %
Loss on drying	0-0.5 (%)	0.28 %
Ignition Residue	0-0.3 (%)	0.03 %
Endotoxin Assay	0-1 (EU/mg)	0.95 EU/mg
pH	10.5-12	10.70
Purity(as dry basis)	98.5-101 (%)	99.10 %
Carbon by Elemental Analysis	40.5-41.5 (%)	40.70 %
Ammonia (NH4)	0-0.02 (%)	0.02 %
specific Rotation[α]20/D(c=8 in 6M HCL)/EP	26.9-27.9 (°)	27.10 °
Specific Rotation[α]25/D(c=8 in 6M HCL/USP)	26.3-27.7 (°)	26.60 °
Cell Culture Test	pass	Pass
Identity by IR	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Residual solvents	complies	complies
Solubility,1g/5ml water	Clear colorless	Clear Colorless

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Parameter	Limit Values	Result
Appearance(V32815)	White crystalline powder or powder to crystal	White crystalline powder or powder to crystal

Quality Assurance : Xiao yong Tan

Quality Control : Yunfei Zou

