

Shanghai yuanye Bio-Technology Co., Ltd

465 Changta Road, SongJiang District, Shanghai 201604, China

Certificate of Analysis

Date of Testing: 2026-07-30 17:10:01

Date of Next Testing: 2030-07-29 17:10:01

Product Name: **L-Arginine hydrochloride**

CAS Number: 1119-34-2

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

Lot #: G2628343

SKU #: **V33776**

Version: **0**

Analysis #: **749801**

Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Loss on drying	0-0.2 (%)	0.03060 %
Ammonia (NH ₄)	0-0.02 (%)	0.02000 %
Heavy metal (as Pb)	0-10 (ppm)	0.00000 ppm
Iron(Fe)	0-10 (ppm)	0.00000 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.03400 %
Endotoxin Assay	0-1 (EU/mg)	0.02500 EU/mg
Purity(titration with AgNO ₃)(dry basis)	98.5-100 (%)	99.16000 %
Sulfate(SO ₄ ²⁻)	0-0.02 (%)	0.01400 %
PH test(1.0g in 10ml water)	4.7-6.2	5.80000
(As)Arsenic	0-1 (ppm)	0.00000 ppm
Specific Rotation [α] ₂₀ /D(c=8 in 6M HCl)	22.1-22.9 (°)	22.11000 °
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Residual solvents	complies	complies
Solubility in H ₂ O , Colorless , Clear , 100 mg in 1 mL H ₂ O	pass	Pass
Appearance(V33776)	white crystalline powder	white crystalline powder

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Quality Assurance : Xiaoyong Tan

Quality Control : Yunfei Zou

