

Shanghai yuanye Bio-Technology Co., Ltd

465 Changta Road, SongJiang District, Shanghai 201604, China

Certificate of Analysis

Date of Testing: 2026-07-01 17:20:57

Date of Next Testing: 2030-06-30 17:20:57

Product Name: **L(+)-Glutamic acid**

CAS Number: 56-86-0

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

Lot #: F2629118

SKU #: **V32595**

Version: **0**

Analysis #: **733745**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
(As)Arsenic	0-1 (ppm)	0.00000 ppm
Sulfate(SO42-)	0-0.02 (%)	0.00780 %
PH test	3-3.5	3.12000
Loss on drying	0-0.1 (%)	0.09400 %
Ammonia (NH4)	0-0.02 (%)	0.02000 %
Endonuclease Detection	0-0.1 (EU/g)	0.02520 EU/g
Iron(Fe)	0-10 (ppm)	0.00000 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.00400 %
Chloride	0-0.02 (%)	0.00020 %
Heavy metal (as Pb)	0-10 (ppm)	0.00000 ppm
Assay(dry basis)	98.5-101 (%)	100.55000 %
Specific Rotation [α] ₂₀ /D(c=10 in 2N HCl)	31.5-32.5 (°)	31.52000 °
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Residual solvents	complies	complies
Solubility,Colorless , Clear , 1.0 g to 10 ml of 2 M HCl	pass	Pass
Appearance(V32595)	white powder	White powder

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Quality Assurance : Xiaoyong Tan

Quality Control : Yunfei Zou

