

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name:	L(+)-Glutamic acid
Specifications & Purity:	Animal Free, USP, JP, Ph.Eur., for cell culture, GMP, ≥98.5%
SKU #	L774633

Parameter	Limit Values
Appearance(L774633)	white to almost white, crystalline powder or colorless crystals
Assay(alkalimetric , calculated on dried substance)	99.0-100.5 (%)
Identity (IR-spectrum)	conforms
Identity (EP)(C)	passes test
Identify(EP)(D)	Pass
Appearance of solution (100 g/L in 1mol/L HCl)(clear and colorless)	Pass
Appearance of solution (100 g/L in 2mol/L HCl)(clear and colorless)	Pass
Specific Rotation [α] ₂₀ /D(C=10 in 1mol/L HCl calc. on dried substance)	30.5-32.5 (°)
Specific Rotation [α] ₂₀ /D(C=10 in 2mol/L HCl calc. on dried substance)	31.5-32.5 (°)
pH (7 g/l CO ₂ -free water)	2.9-3.9
Ninhydrin-Positive Substances	Conforms
Chloride(Cl)	0-200 (ppm)
Sulfate(SO ₄)	0-200 (ppm)
Fe(Iron)	0-10 (ppm)
Ammonium	0-100 (ppm)
Loss on drying(105 °C, 3 h)	0-0.3 (%)
Sulfated ash(600 °C)	0-0.1 (%)
Heavy metals (as Pb)	0-10 (ppm)
Related Compounds(Amount of each amino acid)	≤ 0.2 (%)
Related substances (Sum of amino acids)	≤ 0.6 (%)
Endotoxin Level	0-1 (EU/mg)
Cell Culture Test	pass
Origin	Non-Animal Source