

Code No.07-0052

SPECIFICATION

L(+)-Glutamine

Guaranteed Reagent

REQUIREMENT	SPECIFICATION
* Appearance	White, crystals ~ powder
Assay (C ₅ H ₁₀ N ₂ O ₃)	min.99.0%(mass/mass)
Solubility in water	to pass test
pH of a 20g/L solution at 25°C	4.0~6.0
Specific rotation [α] _{D20}	+6.3~+7.3°
Loss on drying at 105°C	max.0.2%(mass/mass)
Residue after ignition (as sulfate)	max.0.05%(mass/mass)
Chloride (Cl)	max.0.01%(mass/mass)
Sulfate (SO ₄)	max.0.02%(mass/mass)
Lead (Pb)	max.0.001%(mass/mass)
Arsenic (As)	max.1ppm(mass/mass)
Iron (Fe)	max.0.001%(mass/mass)
Foreign amino acids	to pass test

JIS K 9103 : 2020(*:Additional test performed by Wako but not required by JIS)