

Specification Sheet

Product Name: **L-Glutamine**
Specifications & Purity: meets USP testing specifications, suitable for cell culture, 99.0-101.0%, from non-animal source
SKU #: **L432948**

Parameter	Limit Values
NMR Spectrum 1H	Conforms to structure
Purity(dry basis) (Titration)	99.0-101.0 (%)
Infrared spectrum	Conforms to structure
Specific Rotation $[\alpha]_{20/D}(c=5 \text{ in H}_2\text{O})$	9-11 (°)
Chloride Content	0-0.02 (%)
Ammonium (NH ₄)	0-0.1 (%)
Sulfate(SO ₄)	0-0.02 (%)
Iron(Fe)	0-10 (ppm)
Arsenic(As)	0-1 (ppm)
loss on drying(105°C,3 h)	0-0.3 (%)
Residue on ignition(Ash)	0-0.1 (%)
Ninhydrin-Positive Substances	Conforms
PH 2% Water	4.5-6.0
Endotoxin Level(30 mg/mL)	0-1 (EU/ml)
Residual Solvents USP <467>	meets the requirements