L-Glutamine Solution, 200 mM

Contains 29.23 g/L L-Glutamine in 0.85% NaCl

Cat. No. CGLN001 | Size: 100 ML

1. Product Description

L-Glutamine is an essential amino acid required for cell culture. It is necessary for the synthesis of nucleotides, amino sugars, glutathione, and L-glutamate, and plays a vital role in protein synthesis, gluconeogenesis, and the production of intracellular nitrogen compounds. While the optimal concentration varies depending on cell and medium types, it is generally used at around 2 to 8 mM. Although relatively stable in powder or frozen forms, L-Glutamine is unstable in solution and degrades faster than other amino acids, producing ammonia that can be toxic to cells, and therefore must be handled with care.

2. Composition

Components	g/L
L-Glutamine	29.23
NaCl	8.50

3. Product Quality Specifications

Appearance	pH	Osmolality	Sterility
Colorless clear liquid	pH 4.7 ~ 6.0	440 ~ 500 mOsm/kg H_2O	Sterile

4. Storage Conditions and Precautions

Protect from direct light and store frozen (-20°C). Product degradation may appear as precipitates, floating particles, or color change; discard if any are observed. Repeated freezing and thawing cycles may cause degradation, and the addition of extra substances may also cause degradation.

5. Usage Instructions and Precautions

Because this product is temperature-sensitive, thaw it primarily at low temperatures and warm (incubate) it at the actual working temperature (e.g., 37°C) for the minimum necessary time only before use. This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store properly.