GluSTABLE Solution, 200 mM

Contains 200 mM Stable L-Glutamine in 0.85% NaCl

Cat. No. CGLN002 | Size: 100 ML

1. Product Description

GluSTABLE is an alternative to L-Glutamine that shares the same roles and advantages in cell culture while completely eliminating adverse effects and drawbacks. It can be used at the same concentration as L-Glutamine, providing efficient energy metabolism and high cell proliferation without the detrimental effects of excessive ammonia on cells. Furthermore, unlike L-Glutamine solutions which degrade rapidly at room temperature or refrigerated conditions, GluSTABLE solutions are extremely stable even at room temperature.

(Note) 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.

2. Composition

Components	g/L
L-Alanyl-L-Glutamine	43.446
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

Store at room temperature (15 ~ 30°C) protected from direct light. Product degradation may appear as precipitates, floating particles, or color change; discard if any are observed. The addition of extra substances may also cause degradation. Refrigerated (2~8°C) or frozen (-20°C) storage is also possible for long-term storage; however, repeating freeze-thaw cycles is not recommended.

5. Usage Instructions and Precautions

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.