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L-Glutamine (100×), Sterile

1 Packing list

Components	HY-K1046-10 mL	HY-K1046-100 mL
L-Glutamine (100×), Sterile	10 mL	100 mL

2 Introduction

L-glutamine is an important amino acid supplement commonly added to mammalian cell culture media. L-glutamine serves as an auxiliary energy source, especially when cells are rapidly dividing. L-glutamine is also important in the production of purine and pyrimidine nucleotides, amino sugars, glutathione, L-glutamate, other amino acids, and plays a role in protein synthesis and glucose production

MCE L-Glutamine (100×), Sterile is a liquid formulation which contains 200 mM of L-Glutamine in ddH_2O. Common working concentration for L-Glutamine is 2 mM.

3 General Protocol

The L-Glutamine (100×), Sterile can be used according to the following methods:

1. Add L-Glutamine (100×), Sterile in proportion (1:100 (v/v)) to the sterile cell solution, mix well before use.
2. Add L-Glutamine (100×), Sterile in proportion (1:100 (v/v)) to the cell culture solution, filter and sterilize.

4 Storage

-20ºC, 1 year

5 Precautions

1. Avoid repetitive freeze-thaw cycles.
2. Always use sterile reagents, tubes and tips to avoid contamination.
3. The common working concentration for L-Glutamine is 2-6 mM.
4. L-Glutamine is unstable in cell culture and should be stored at -20°C. L-glutamine should be reintroduced to cell culture containing L-glutamine when stored at 4°C for more than two weeks.
5. A small amount of precipitation may occur at low temperatures, which is normal. Incubation at 37°C can completely dissolve the precipitate. Do not use before the precipitation is completely dissolved.
6. This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.
7. For your safety and health, please wear a lab coat and disposable gloves to operate.