

Catalog Number:

B90010

PRODUCT DESCRIPTION

L-Glutamine is an essential amino acid required as an energy and carbon source by virtually all mammalian and insect cells in culture. L-Glutamine is very stable as a dry powder and as a frozen solution. However, L-glutamine is more labile in solution than other amino acids when stored above freezing. The rate and extent of L-glutamine degradation are dependent on time, storage temperatures and pH. Supplementation of cell culture media with L-glutamine prior to use is frequently required.

The L-Glutamine Solution is supplied as a 200 mM (29.2 mg/mL) solution in 0.85% saline.

STORAGE AND HANDLING

The L-Glutamine Solution is supplied in gamma irradiated, sterile PETG or PETE bottles. We recommend that the L-Glutamine Solution be stored frozen at a temperature of -5 °C to -20 °C. Always use aseptic techniques when handling the L-Glutamine Solution.

PRECAUTION

When handling bio-hazardous materials such as human cells, safe laboratory procedures should be followed, and personal protective equipment should be worn.

LIMITATIONS

- FOR LABORATORY RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
- The safety and efficacy of this product in diagnostic or other clinical uses has not been established.
- Results may vary due to variations among tissue/cells derived from different donors or sources.

PREPARATION INSTRUCTIONS

Remove the L-Glutamine Solution from frozen storage and thaw in a water bath at room temperature. Periodically agitate the bottle during the thawing process to avoid gradients from forming. Promptly remove the product from the water bath as soon as the L-Glutamine Solution is completely thawed. Thoroughly mix the thawed product before it is added to a culture medium. Supplement the cell culture medium with the appropriate volume of L-Glutamine to achieve the desired concentration. The recommended use concentration for this L-Glutamine Solution in culture media is 10 mL/L.