

PRODUCT DATA SHEET

L-Glutamine Solution (100X)

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 200mM (29.2 mg/ml) solution in 0.85% saline.

Product Use

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.

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.

Shipping

The L-Glutamine Solution is shipped frozen by next day air in insulated containers packed with dry ice.

This product is manufactured for research and development purposes only. It is not intended for any human or animal diagnostic, therapeutic or other clinical uses. It is also not for agricultural, food, drug, cosmetic or household use. The use of these products must be supervised by a person technically qualified to handle potentially hazardous material.