

Technical Information

L-Glutamine 200mM Solution, 100X
L-Glutamine in 0.85% normal saline
Cell Culture Tested, Sterile filtered

Product Code:TCL1012

Molecular Weight: 146.15

Molecular Formula: C₅H₁₀N₆O₃

CAS number: 56-85-9

L-glutamine is an essential amino acid required by all mammalian and insect cells grown in culture. It functions as an additional source of carbon and energy and in particular is utilized for nucleic acid synthesis. L-Glutamine is extremely sensitive to pH and temperature. L-glutamine degrades relatively rapidly in stock solutions or liquid media. Hence we recommend addition of L-glutamine to media prior to use.

TCL1012 is sterile filtered L-glutamine solution prepared in 0.85% normal saline.

Methodology

1. Remove TCL1012 from the freezer and keep it at room temperature for 30 minutes.
2. To ensure complete thawing, place it in a 37°C water bath. Agitate the bottle every 5 - 10 minutes.
3. Remove the bottle from water bath as soon as it is completely thawed.

Note:

Incomplete thawing will lead to precipitation or flocculation of material in the solution. Hence it is recommended to warm the solution at 37°C to complete the thawing process. Do not leave the bottle at 37°C for longer times than necessary. Degradation process of L-glutamine increases significantly at warmer temperatures.

Quality control

Appearance

Colorless, clear solution.

pH

7.00 -7.60

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

Growth Promotion Test.

Osmolality in mOsm/Kg H₂O

440.00 -480.00

Endotoxin Content

NMT 1EU/ml

Storage and Shelf Life

Store at -20°C. Multiple freeze thaw cycles may result in reduction of activity. For longer storage, we recommend that aliquots be taken aseptically in sterile containers after the first thawing. Once the product has been opened and refrigerated, the maximum shelf life is about 2 weeks. Shelf life of the product is 24 months. Use before expiry date given on the product label.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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