

Technical Information

MicglutaXL Supplement 200mM, 100X w/ L-Alanyl-L- Glutamine in 0.85% normal Saline

Product Code: TCL1030

Application:-

Molecular Weight : 217.22

Molecular Formula : C₈H₁₅N₃O₄

L-Glutamine is an essential amino acid required by all mammalian and insect cells grown in culture. Lglutamine degrades rapidly in solution through an intramolecular cyclization reaction forming ammonia as a byproduct.

MicGlutaXL supplement contains the stabilised dipeptide form of L-glutamine, L-alanyl-L-glutamine. Dipeptide form prevents the intramolecular cyclization reaction, thus preventing toxic build-up of ammonia. L-alanyl-L-glutamine incorporates L-alanine that protects the alpha amino acid group. Aminopeptidases within the cell break the dipeptide, gradually releasing both L-glutamine and L-alanine for use by the cell. The thermostable nature of L-alanyl-L-glutamine obviates the need of addition of L-glutamine at the time of use and allows liquid media to be stored at 4°C for longer periods. TCL1030 is a sterile filtered 200mM solution of L-alanyl-L-glutamine prepared in 0.85% normal saline.

Quality control

Appearance

Colorless, clear solution.

pH

5.40 -6.00

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

400.00 -500.00

Storage and Shelf Life

Store at 2-8°C.

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.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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