

biowest	Technical data sheet, other products	Ref : FT.X0550an Page : 1/1
	Created : H. Kerhervé	Version 02
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L(+)- Glutamine 100X, 200mM

CAT n°: X0550

Theoretical pH : 5±1

Osmolarity : 200±50 mOsm/l

Colour : Incolour (weight when frozen)

Storage conditions : Frozen / Freeze again after using at -20°C

Shelf life : 24 month

Sterility tests :

- bacteria aerobic-anaerobic
- bacteria strictly anaerobic
- fungi

Endotoxin : <10 EU/ml

Cell test: L929 cells

Composition : meet special formulation sheet

Recommended use :

Use aseptic technique when handling this product.

For in vitro laboratory use only, not for drug, human or veterinary use.

Application :

L-Glutamine is an essential amino acid required by virtually all mammalian and insect cells grown in culture. It is a crucial component of many cell culture media and serves as a major energy source for cells in culture. L-Glutamine is very stable as a dry powder and as a frozen solution. However, in liquid media or stock solutions, L-Glutamine can degrade relatively rapidly. L-Glutamine is also more labile in cell culture solution than other amino acids. Optimal cell performance usually requires supplementation to the media with 2-8 mM L-Glutamine prior to use.

Please note, L-Glutamine degradation results in a build up of ammonia which could have a deleterious effect on some culturing systems.

Utilisation :

1. Remove product from the freezer and allow it to sit at room temperature for thirty minutes.
2. Thaw the product completely in a 37°C water bath. Agitate every 15-20 minutes to avoid gradients from forming. Remove L-Glutamine from water bath as soon as it is completely thawed.
3. Supplement cell culture medium with appropriate volume of L-Glutamine to achieve desired concentration. L-Glutamine (cat n°X0550) is supplied as 200mM (29.23mg/ml) solution

Indications of deterioration :

L-Glutamine should be clear of particulates and flocculent material after warming to 37°C. Do not use if L-Glutamine is cloudy or contains precipitate.

Other evidence of deterioration may include colour change, as well as, degradation of physical or performance characteristics.