

Technical Data sheet

L(+)- Glutamine 100X, 200mM- 100ml

EU cat. No 392-0441

Manufactured in France

Theoretical pH: 5±1

Osmolality: 200 ± 50 mOsm/kg

Colour: colourless (white when frozen)

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

Shelf life: 24 months

Sterility tests:

- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

Endotoxins: < 10 EU/ml

Cell growth test:

Medium tested for the ability to support L929 cell growth.

Recommended use:

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions).
- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

Applications:

L-Glutamine is an essential amino acid required by all mammalian and insect cells for their 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.

Uses:

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 concentration gradients. 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° : 392 0441) is supplied as 200mM (29.23mg/ml) solution.

Signs 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.

Composition:

CAS Number	Components	Quantity in g/l
56-85-9	L-Glutamine	29.20000000
WATER		970.80000000