

# Product Information

## L-Glutamine Solution 200 mM

29.23 mg/mL in saline

CATALOG NO. 59202C

### Description

L-glutamine is an essential amino acid that is a crucial component of culture media that serves as a major energy source for cells in culture. L-glutamine is very stable as a dry powder and as a frozen solution. In liquid media or stock solutions, however, L-glutamine degrades relatively rapidly. Optimal cell performance usually requires supplementation of the media with L-glutamine prior to use.

### Precautions

Use aseptic technique when handling this supplement. This product is for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

### Storage

To effectively preserve the integrity of L-glutamine, it should be stored frozen and protected from light. For stability and optimal performance, this product should be stored at -10 to -40 C and used prior to the labeled expiration date. Multiple freeze/thaw cycles can hasten the degradation process and should be avoided.

### Indications of Deterioration

Supplement should be clear of particulates and flocculent material after warming to 37 C. Do not use if supplement is cloudy or contains precipitate. Other evidence of deterioration may include color change as well as degradation of physical or performance characteristics.

### Preparation Instructions

1. Remove product from the freezer and allow it to sit at room temperature for 30 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 (Catalog No. 59202C) is supplied as a 200 mM (29.23 mg/mL) solution.

### Characteristics

#### Appearance

Clear colorless solution

#### Endotoxin (LAL)

≤ 1.25 EU/mL

#### Osmolality (as supplied)

440 - 480 mOsm/kg H<sub>2</sub>O

#### Sterility

No microbial growth detected

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