

## L-glutamine (200 mM)

L-glutamine is an essential amino acid required for cell culture growth. The typical concentration of L-glutamine in media is 292 mg/L or 2 mM. L-glutamine is not stable for long periods of time unless it is frozen. The material should be aliquoted to smaller volumes and then frozen.

### Stability

The stability of L-glutamine in culture medium is primarily dependent on the temperature at which it is stored. Lonza test data for long-term storage indicates that the L-glutamine concentration is reduced by approximately 2 - 3% per month in tissue culture medium stored at 2°C - 8°C. However, basal medium containing L-glutamine supports cell growth for up to 24 months when stored in refrigerated conditions.

### Formula

L-glutamine	29,230 mg/L
NaCl	8,500 mg/L

### Usage

EMEM	2 mM	10 mL/L
DMEM	4 mM	20 mL/L
RPMI	2.1 mM	10.3 mL/L

### Specifications

	pH	Osmolality (mOsm)	Cell Growth Promotion (% of control)	Endotoxin (EU/mL)	Sterility
17-605 BE17-605	5.58-6.78	423-499	≥ 75%	≤ 1.25	Neg.
BEBP17-605	5.58-6.78	423-499	≥ 75%	≤ 1.25	Neg.

### Ordering information

Catalog number	Description	Size
17-605E BE17-605E	Liquid 200 mM L-glutamine	100 mL
BEBP17-605E*	Liquid 200 mM L-glutamine	100 mL
BE15-605G*	Powder 200 mM L-glutamine	25 g
BE15-605X0.200*	Powder 200 mM L-glutamine	200 g
BE15-605GX3*	Powder 200 mM L-glutamine	3 kg

### Product use statements

**THESE PRODUCTS ARE FOR RESEARCH USE ONLY.** Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* procedures.

**\* GMP PRODUCTS ARE INTENDED FOR RESEARCH OR FOR FURTHER MANUFACTURING USE ONLY.** This product is not intended for direct therapeutic use in humans.