

## Product Information

Stable Glutamine, 200 mM  
Cat. No. STA-B (100 ml)

### General Information

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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 in liquid media degrades relatively rapidly when cultured at +37°C and toxic degradation products (ammonium ions) can interfere and may cause damage to cells.

Stable Glutamine is a stable dipeptide form of L-Glutamine. Unlike L-Glutamine, Stable Glutamine does not spontaneously break down to form ammonia. Instead, cells cleave the dipeptide bond to release L-Glutamine as needed. This system prevents waste build-up and maintains a fresh supply of L-Glutamine during long-term culture.

This solution is prepared in cell culture grade water.

Applications:

- Direct substitute for L-Glutamine
- For mammalian cell cultures
- For suspension and adherent cell cultures
- Essential media component

### Product Specifications

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Appearance	Clear frozen liquid
Storage and shelf life	Store at $\leq -15^{\circ}\text{C}$ . Avoid repeated freeze-thaw cycles. Preparation of aliquots recommended. Once opened, store at +4°C and use within 4-6 weeks.
Shipping conditions	Frozen (Dry ice)
Thawing	+37°C water bath or overnight at +2°C to +8°C. Swirl gently to homogenize.

### Precautions and Disclaimer

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This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Help Needed?

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If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).