

Product Information

Stable Glutamine, 200 mM

Cat. No. STA-B (100 ml)

General Information

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

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

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

Help Needed?

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) or phone (+49 6424 944640).