



## Stable Glutamine (200 mM) LTGA04

### Product 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 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

pH	6.5 – 7.5
Osmolality	420 – 500 mOsmol/kg
Endotoxin	≤10 EU/ml
Sterility	Tested
Storage	Store at ≤-15°C.

### 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.