



**L-alanyl-l-glutamine (200mM)  
(LALG)**  
Catalog #0733

**Product Description**

L-glutamine is an essential amino acid and provides energy and nitrogen to proliferating cells. L-glutamine is unstable in solution at 37°C and breaks down to form ammonium and pyrrolidone-carboxylic acid [1]. This instability can be detrimental to some cells *in vitro* as available L-glutamine degrades, producing toxic ammonia.

L-alanyl-l-glutamine (LALG) is a stable L-glutamine dipeptide that can substitute for L-glutamine in culture media. Most media are formulated with 2-10mM L-glutamine; however, the optimal LALG concentration should be determined for individual cell types and culture conditions.

**Formula**

L-alanyl-l-glutamine	43,444 mg/L
NaCl	8,500 mg/L

**Product Use**

LALG is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.

**Storage**

Store at 2-8°C.

**Shipping**

Gel ice.

**References**

[1] Tritsch GL, and Moore GE. (1962) "Spontaneous decomposition of glutamine in cell culture media." *Exp Cell Res.* 28(2):360-364.

*Caution: If handled improperly, some components of this product may present a health hazard. Take appropriate precautions when handling this product, including the wearing of protective clothing and eyewear. Dispose of properly.*