

## 200 mM L-Alanyl-L-Glutamine Solution, 100×

**Cat. No:** PB180419

**Size:** 100mL

### General Information

<b>Product Form</b>	Liquid
<b>Concentration</b>	200mM
<b>L-Alanyl-L-Glutamine</b>	200mM
<b>Recommended working concentration</b>	1mM-4mM
<b>Dissolvent</b>	0.85% NaCl
<b>Storage</b>	2-8℃
<b>Shipping</b>	RT
<b>Expiration date</b>	36 months

### Background

L-alanyl-L-glutamine is an advanced cell culture additive and as a substitute for L-glutamine. L-glutamine is a necessary nutrient element for cells. But it is unstable in solution and can be degraded spontaneously to form ammonia and pyroglutamic acid and ammonia is harmful to cells. L-alanyl-L-glutamine is stable in aqueous solution and does not degrade spontaneously. The mechanism used by the cell is that the cell gradually releases a peptidase into the culture medium during cell culture. The peptidase can hydrolyze L-alanyl-L-glutamine into L-alanine and L-glutamine. L-alanine and L-glutamine can be absorbed and utilized by cells. This not only increases the utilization rate of L-glutamine, but also does not produce excess ammonia, which is more beneficial to cell growth.

### Notes

1. This product is for research use only.;
2. This product is sterilized by 0.1μm filtration.;
3. It is necessary to pay attention to the aseptic operation and avoid the contamination.;
4. It will take some time to release peptidase and metabolize dipeptide, so the delay period of cells will be slightly longer.;; But there is no effect to cell growth.;
5. This product is a concentrated solution and dilute it to the desired concentration before use.