

	<b>Technical data sheet, other products</b>		Ref : FT.X0551an Page : 1/1
			Version 01
	Created : H. Kerhervé	Verified : M. Lulev	Version date : 17/03/03

## **Stable L-Glutamine 100X, 200mM**

**CAT n°:** X0551

**Colour :** Incolour

**Storage conditions :** Frozen / Freeze again after using at  $-20^{\circ}\text{C}$

**Shelf life :** 24 months

**Storage:**  $+8^{\circ}\text{C}$  to  $-20^{\circ}\text{C}$ . It may be stored either frozen or cold without degradation.

**Sterility tests :**

- bacteria aerobic-anaerobic
- bacteria strictly anaerobic
- fungi

**Endotoxin :**  $<10$  EU/ml

**Cell test:** L929 cells line

**Recommended use :**

Use aseptic technique when handling this medium.

For in vitro laboratory use only, not for drug, human or veterinary use.

**Application :**

Dipeptide derivatives of L-Glutamine prevent the intramolecular cyclization reaction associated with solutions of L-Glutamine. These derivatives are therefore stable in solution and allow the formulation of cell culture media containing L-Glutamine that may be stored at  $4^{\circ}\text{C}$  for extended periods. Solutions containing these derivatives can be even autoclaved without appreciable degradation of the product (30 minutes at  $121^{\circ}\text{C}$  results in  $<5\%$  loss of the product).

The dipeptide derivatives are metabolized within the cells to yield L-Glutamine plus the second amino acid. This results in more consistent delivery of L-Glutamine to your cells and avoid toxic buildup of ammonia in your cell cultures. This feature can be especially important for ammonia-sensitive cell lines.

**Utilisation :**

The stable dipeptide derivatives of L-Glutamine may be used as a direct substitute for regular L-Glutamine in your cell culture medium. Use the same concentration of stable L-Glutamine in your medium as normally required for regular L-Glutamine. Since the stable L-Glutamine products provide long-term stability of the L-Glutamine in solution, your culture media may be stored at  $4^{\circ}\text{C}$  for extended periods without loss of this essential amino acid.