

Technical Data Sheet

Date: 19/08/2014

Versene

CAT No: LM-S2048

Theoretical pH:	7.2 ± 0.3
Osmolality:	280 mOsm/kg ± 10%
Colour:	colourless, clear solution
Storage conditions:	+2 / +8°C
Shelf life:	24 months
Sterility tests:	- Bacteria in aerobic and anaerobic conditions - Fungi and yeasts
Endotoxin:	< 1 EU/ml
Activity test:	Cells detachment with the L929 cell line
Composition:	meet special formulation sheet

Recommended use:

Use aseptic technique when handling or supplementing this medium.
For in vitro laboratory use only, not for drug, human or veterinary use.

Description :

The Versene is used instead of Trypsin. It is a chelating agent that disperses the cells by cutting the cytoplasmic bridges between them.

The Versene has the advantage to bear the temperature of the autoclave, which is a guarantee of sterility. In addition, it is less aggressive cells than Trypsin, which is useful for studies on cell growth.

Uses :

To act, the Versene must be in a medium free of calcium and magnesium ions. It is generally used in PBS amended by deleting the calcium chloride and magnesium chloride (catalog number L0615).

1. Take 75 ml of Versene and complete to 100 ml with PBS. Autoclave at 120°C for 20 minutes.
2. Prepare a solution of CaCl₂ at 3.5 g/l and autoclave at 120°C for 20 minutes.
3. Discard the culture medium from the vial to transplant.
4. Rinse quickly but carefully the bottle with a little Versene-PBS, to remove calcium and magnesium ions remaining.
5. Add the Versene-PBS at 5 ml per 250 ml bottle.
6. Turn the bottle flat in the oven for 15 minutes.
7. After 15 minutes, take the bottle and add the CaCl₂ solution (0.2 ml per 250 ml) to neutralize the Versene.
8. Add the fresh medium directly under the same conditions than with Trypsin.
9. Shake, cells disperse.
10. Divide and put new bottles in the oven.

Indication of Deterioration :

Medium should be clear and free of particulate and flocculent material.
Do not use if medium is cloudy or contains precipitate.