

Trypsin Solution (0.25% Trypsin, Without EDTA And Phenol Red)

Cat #: A-CSH745

Size: 100mL,500mL

Storage: -20°C (12 months)

Product Description

This product contains 0.25% pancreatin, sterilized by filtration, and can be directly used for cell and tissue digestion.

Special Instructions

1. Pancreatin-EDTA digestion solution (0.05% pancreatin) has a higher digestion capacity compared to pancreatin cell digestion solution (0.05% pancreatin) due to the presence of EDTA.
2. Phenol red may interfere with subsequent testing and analysis. It is recommended to choose pancreatin-EDTA digestion solution (0.05% pancreatin) and pancreatin cell digestion solution (0.05% pancreatin, without EDTA) that do not contain phenol red.
3. EDTA may interfere with subsequent testing and analysis. It is recommended to choose pancreatin cell digestion solution (0.05% pancreatin, without EDTA) and pancreatin cell digestion solution (0.05% pancreatin, containing phenol red, without EDTA) that do not contain EDTA.
4. For cells that are particularly sensitive to pancreatin, or in cases where the digestion time is very fast and difficult to control, it is recommended to use pancreatin cell digestion solution (0.05% pancreatin) or pancreatin cell digestion solution (0.05% pancreatin, containing phenol red).

Usage

1. Digestion of adherent cells:
 - 1.1 Remove the culture medium and wash the cells once with sterile PBS, Hanks' solution, or serum-free culture medium to remove residual serum.
 - 1.2 Add a small amount of pancreatic trypsin-EDTA digestion solution, enough to cover the cells, and place them in a

37° C cell culture incubator for 1-2 minutes. The digestion time may vary for different cell types, and for firmly adherent cells, the digestion time can be extended accordingly.

1.3 Observe the cells under a microscope; the cells will visibly contract, and there will be noticeable changes in cell morphology at the bottom of the culture vessel. Alternatively, gently tap the cells with a pipette, and if the cells detach easily, remove the digestion solution. Add cell culture medium containing serum, tap the cells to detach them, and use them directly for subsequent experiments.

If insufficient digestion is observed, add pancreatic trypsin-EDTA digestion solution for re-digestion.

If the digestion time is too long and the cells have partially detached from the bottom of the culture vessel without detachment by tapping, use pancreatic enzyme cell culture medium to detach all the cells. Centrifuge at 1000-2000g for 1 minute to pellet the cells. After removing the pancreatic enzyme cell digestion solution as much as possible, resuspend the cells in complete culture medium containing serum for subsequent experiments.

2. Digestion of tissues:

Different tissues require significantly different digestion times, usually until the tissue is thoroughly dispersed after digestion.

Notes

1. Due to the different nature of tissues or cells, researchers should determine the optimal digestion time based on specific circumstances. Prolonged digestion time should be avoided for cells as it may affect cell adhesion and growth.
2. It is important to maintain aseptic conditions and prevent microbial contamination of the digestion solution when using this product.
3. Prolonged storage at 4°C is not recommended, and repeated freeze-thaw cycles should be avoided. For small quantities, it is advisable to aliquot and store them frozen.
4. For your safety and well-being, please wear appropriate laboratory attire and disposable gloves while performing the procedure.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.