

Trypsin-EDTA Solution (0.25% Trypsin, With Phenol Red)

Cat #: A-CSH746

Size: 100mL, 500mL

Storage: -20°C (12 months)

Product Description

This product contains 0.25% trypsin, 0.02% EDTA, and phenol red. It has been sterilized by filtration and can be directly used for cell and tissue digestion.

1. Trypsin-EDTA Solution (0.25% trypsin) has a significantly stronger digestion capability than trypsin solution (0.25% trypsin) due to the presence of EDTA.
2. If phenol red may interfere with subsequent testing and analysis, it is recommended to choose trypsin-EDTA solution (0.25% trypsin) and trypsin solution (0.25% trypsin, without EDTA) that do not contain phenol red.
3. If EDTA may interfere with subsequent testing and analysis, it is recommended to choose trypsin solution (0.25% trypsin, without EDTA) and trypsin solution (0.25% trypsin, containing phenol red, without EDTA) that do not contain EDTA.
4. For cells that are particularly sensitive to trypsin, or in cases where digestion time is very fast and difficult to control, it is recommended to choose trypsin solution (0.25% trypsin) or trypsin solution (0.25% trypsin, containing phenol red).

Procedure

1. Digestion of Adherent Cells:

Remove the culture medium and wash the cells once with sterile PBS, Hanks' solution, or serum-free culture medium to remove residual serum.

Add a small amount of Trypsin-EDTA Solution, enough to cover the cells. Place the culture dish 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.

Observe the cells under a microscope. The cells should visibly shrink, and significant morphological changes should be

observed at the bottom of the culture dish. Alternatively, gently pipette the cells and check if the cells detach easily. At this point, remove the digestion solution and add cell culture medium containing serum. Gently pipette the cells to detach the cells, and they can be directly used for subsequent experiments.

If incomplete digestion is observed, add Trypsin-EDTA Solution for re-digestion.

If the digestion time is too long and some cells have already detached from the bottom of the dish without pipetting, please use trypsin cell culture medium to pipette all the cells. Centrifuge at 1000-2000g for 1 minute to pellet the cells. After removing the trypsin 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 can be fully dispersed after digestion.

Notes

1. Due to the variations in tissue or cell properties, researchers should determine the optimal digestion time based on specific circumstances. Prolonged digestion of cells should be avoided as it can affect cell adhesion and growth.
2. It is important to handle this product aseptically to prevent microbial contamination of the digestion solution.
3. Long-term 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 frozen.
4. For your safety and well-being, please wear appropriate laboratory attire and disposable gloves while handling the product.

Disclaimer

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