

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

Cat #: A-CSH747

Size: 100mL

Storage: -20°C (12 months)

Product Description

Sterile Ultrapure Water, also known as UP water, refers to water with a resistivity of $18 \text{ M } \Omega \cdot \text{cm}$ (25°C) and minimal impurities. It is primarily used for the preparation of various culture media and solutions in cell culture experiments.

Special Instructions

1. The pancreatic enzyme-EDTA digestion solution (0.05% pancreatic enzyme) exhibits significantly stronger digestion ability compared to the pancreatic enzyme cell digestion solution (0.05% pancreatic enzyme) due to the presence of EDTA.
2. Phenol red may interfere with subsequent test analyses. Therefore, it is recommended to choose a pancreatic enzyme-EDTA digestion solution (0.05% pancreatic enzyme) and a pancreatic enzyme cell digestion solution (0.05% pancreatic enzyme, without EDTA) that do not contain phenol red.
3. EDTA may interfere with subsequent test analyses. In such cases, it is recommended to choose a pancreatic enzyme cell digestion solution (0.05% pancreatic enzyme, without EDTA) and a pancreatic enzyme cell digestion solution (0.05% pancreatic enzyme, containing phenol red, without EDTA) that do not contain EDTA.
4. For cells that are particularly sensitive to pancreatic enzymes, especially in cases where digestion time is fast and difficult to control, it is recommended to choose either the pancreatic enzyme cell digestion solution (0.05% pancreatic enzyme) or the pancreatic enzyme cell digestion solution (0.05% pancreatic enzyme, 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.