

Trypsin-EDTA Solution (0.05% Trypsin, With Phenol Red)

Cat #: A-CSH743

Size: 100mL

Storage: -20°C (12 months)

Product Description

This product contains 0.05% pancreatin, 0.02% EDTA, and phenol red. It has been sterile filtered and can be directly used for the digestion of cells and tissues.

Special Instructions

1. Pancreatin-EDTA digestion solution (0.05% pancreatin) has a significantly stronger digestion ability compared to pancreatin cell digestion solution (0.05% pancreatin).
2. Phenol red may interfere with subsequent test 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 test analysis. It is recommended to choose pancreatin cell digestion solution (0.05% pancreatin, without EDTA) and pancreatin cell digestion solution (0.05% pancreatin, with phenol red, without EDTA) that do not contain EDTA.
4. For cells that are particularly sensitive to pancreatin, i.e., cells with a fast digestion time or difficult-to-control digestion time, it is recommended to choose pancreatin cell digestion solution (0.05% pancreatin) or pancreatin cell digestion solution (0.05% pancreatin, with 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 based on achieving thorough tissue dissociation 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 time should be avoided as it may affect cell adhesion and growth conditions.

2. This product requires aseptic handling to avoid microbial contamination of the digestion solution.

3. It is not suitable for long-term storage at 4°C and should not be subjected to repeated freeze-thaw cycles. For small quantities, it is recommended to aliquot and store frozen.

4. For your safety and health, please wear appropriate laboratory attire and disposable gloves while handling.

Disclaimer

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