Trypsin Solution

T753835

Storage: Store at -20°C long term (24 months).

Product List:

Catalog	Product	Volume	Storage
T753835-TR-100ml	Trypsin-EDTA (0.25%), phenol red	100ml	-20℃
T753835-WE-100ml	Trypsin (0.25%), no phenol red	100ml	-20℃
T753835-WW-100ml	Trypsin (0.25%), phenol red	100ml	-20℃

Introduction:

In the in vitro culture of tissue cells and the dispersion of tissue cells in primary cell culture (preparing tissue blocks into single-cell suspensions), as well as in the passage cell culture, tissue cell digestion solution is required for the digestion and dispersion of adherent cells. The components of the digestion solution include trypsin, EDTA, phenol red, etc. Its main function is to hydrolyze the proteins between cells (such as the extracellular matrix), so as to disperse the tissues or adherent cells into single cells and prepare a cell suspension for further experiments.

Usage method:

1. Adherent cells:

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

b) Add a small amount of trypsin digestion solution, just enough to cover the cells, and place it at room temperature for 1-2 minutes. The digestion time varies for different cells. For cells that adhere firmly, the digestion time can be appropriately extended.

c) Observe under a microscope. The cells will obviously shrink, and when observing the bottom of the culture vessel with the naked eye, a significant change in the cell morphology can be found; or when blowing and beating the cells with a pipette, it is found that the cells can just be blown off. At this time, aspirate the digestion solution. Add the cell culture medium containing serum, blow off the cells, and it can be directly used for subsequent experiments.

d) If it is found that the digestion is insufficient, trypsin digestion solution can be added for re-digestion.

e) If it is found that the cell digestion time is too long, and before blowing and beating the cells, some cells have already fallen off directly from the bottom of the culture vessel, directly blow off all the cells with the trypsin cell culture medium. Centrifuge at 1000-2000g for 1 minute to pellet the cells. Try to remove the trypsin cell digestion

solution, then add the complete culture medium containing serum to resuspend the cells again, and it can be used for subsequent experiments.

2. Tissues:

The digestion time required for different tissues varies greatly. Generally, it is advisable that the tissues can be fully broken up after digestion.

Matters needing attention:

1. Due to the different properties of tissues or cells, experimenters should determine the optimal digestion time according to the specific situation. The digestion time of cells should not be too long, otherwise it will affect the cell adhesion and growth status.
2. This product does not contain bacteriostatic agents. Special attention should be paid to aseptic operation during use to prevent the digestion solution from being contaminated by microorganisms.
3. It is not suitable for long-term storage at 4°C. Repeated freezing and thawing should be avoided. When using a small amount, it is recommended to divide it into aliquots and store it frozen.
4. For your safety and health, please wear a laboratory coat and disposable gloves when operating.