

0.25% Trypsin-EDTA (1×)

Description

TargetMol's 0.25% Trypsin-EDTA (1×) is a ready-to-use cell dissociation solution specifically designed for routine passaging, harvesting, and single-cell preparation of adherent cells. The formulation contains trypsin and EDTA, which efficiently disrupt cell-substrate and cell-cell interactions, enabling rapid and effective cell detachment.

This optimized formulation ensures efficient cell release while maximizing preservation of cell membrane integrity and biological activity. It is suitable for the culture and processing of a wide range of mammalian adherent cells. Supplied as a 1× working solution, the product can be used directly without dilution. It is ideal for routine cell culture, passaging, and pre-freezing preparation, making it an essential reagent in cell culture laboratories.

Features

- **Ready to Use:** No additional dilution or preparation required; can be directly used for cell dissociation, saving experimental setup time.
- **Strong & Fast Dissociation:** 0.25% trypsin efficiently dissociates tightly adherent cell clusters, significantly reducing digestion time.
- **Synergistic Action with EDTA:** EDTA chelates Ca^{2+} and Mg^{2+} , enhancing the disruption of cell-cell junctions and improving dissociation uniformity.
- **Consistent Quality:** Manufactured with high-purity trypsin, sterile-filtered to ensure cell culture safety and reproducibility.
- **Broad Compatibility:** Suitable for routine passaging and dissociation of a wide range of mammalian cell lines.

Application

For the dissociation, passaging, and collection of adherent cells.

Instructions

1. Preparation

a) Take the trypsin solution from the refrigerator and pre-warm it at 37 °C in a water bath or incubator for 5-10 minutes.

Note: Do not prewarm the entire bottle; only take out the volume you need.

b) Aspirate the old culture medium from the culture dish or flask, and gently rinse the cells once with sterile PBS, Hanks' solution, or serum-free medium to remove residual serum.

Note: Serum inhibits trypsin activity.

2. Trypsinization

a) Add an appropriate amount of trypsin solution to just cover the cell layer. Incubate at room temperature for 1-5 minutes, gently rocking the culture vessel during incubation to ensure even contact between trypsin and cells.

b) Observe the cells under a microscope. When the cells begin to round up and detach from the surface, digestion is considered optimal.

3. Termination of Trypsinization

a) Immediately add an equal volume or double volume of complete culture medium containing serum to stop trypsin activity.

b) Gently pipette up and down to fully detach the cells and obtain a single-cell suspension.

4. Cell Collection and Culture

- Transfer the cell suspension to a centrifuge tube and centrifuge at 1,000 rpm for 3-5 minutes.
- Discard the supernatant and resuspend the cell pellet in fresh culture medium for cell counting, passaging, or seeding according to experimental requirements.

Storage

Store at 4 °C for 3 months; -20 °C for 2 years.



Precautions

- After use, immediately seal and store at 4 °C. For long-term storage, keep at -20 °C and avoid repeated freeze-thaw cycles.
- Avoid excessively long trypsin dissociation, as this may cause cell damage or death.
- For sensitive cells (e.g., primary cells or stem cells), consider shortening dissociation time or diluting the trypsin concentration.
- Observe aseptic techniques to prevent microbial contamination.
- The product is for R&D use only, not for diagnostic procedures, food, drug, household or other uses.
- This product may irritate skin, eyes, and the respiratory tract. Please wear a lab coat and disposable gloves.

How to Select Trypsin Cell Dissociation Solutions

| | Cells are sensitive to trypsin & dissociation time is difficult to control | Strong dissociation | To monitor the dissociation process | Without Phenol Red | Without EDTA |
|--|--|---------------------|-------------------------------------|--------------------|--------------|
| C0200 0.05% Trypsin-EDTA, phenol red (1x) | ✓ | | ✓ | | |
| C0201 0.25% Trypsin-EDTA, phenol red (1x) | | ✓ | ✓ | | |
| C0202 0.25% Trypsin-EDTA (1x) | | ✓ | | ✓ | |
| C0203 0.25% Trypsin, phenol red (1x) | | | ✓ | | ✓ |

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