

Recombinant Trypsin-EDTA Solution (with Phenol Red)

R1201837

Storage: Store at -20°C for 12 months; avoid repeated freeze-thaw cycles.

Introduction:

Trypsin is a serine endopeptidase secreted by the pancreas. It recognizes lysine or arginine residues and cleaves at the carboxyl terminus of arginine or lysine residues. This product is a recombinant porcine trypsin expressed in *Pichia pastoris*, manufactured in a GMP-compliant environment. It contains no animal-derived components and is free from animal-derived viral contamination (e.g., swine influenza virus, porcine parvovirus, etc.). It naturally lacks chymotrypsin activity. The activity of this product is inhibited by serine protease inhibitors such as PMSF and TLCK, as well as metal ion chelators such as EDTA. This product contains phenol red and 0.913 mM EDTA, with a pH of 7.4.

Enzyme Activity Definition: One USP unit is defined as the amount of enzyme that causes an increase in absorbance at 253 nm by 0.003 per minute when hydrolyzing BAEE in a 3.2 ml reaction system (1 cm light path) at 25°C and pH 7.6.

Usage method:

Digestion of adherent cells

1. Pre-warm the recombinant trypsin digestion solution and complete medium at 37°C before use.
2. Discard the culture supernatant, wash the cells with an appropriate amount of DPBS, and discard the DPBS.
3. Add an appropriate amount of recombinant trypsin digestion solution (0.5 ml/10 cm²) and incubate at 37°C until the cells detach.
4. Add 5-10 ml of pre-warmed complete medium, gently mix the cells, transfer the cell suspension to a sterile 15 ml centrifuge tube, and centrifuge at 100×g for 5-10 minutes.
5. Discard the supernatant and add an appropriate amount of complete medium for cell culture.

Precautions:

1. After receiving the product, avoid repeated freeze-thaw cycles as much as possible.
2. Wear a lab coat and disposable gloves when using the product.
3. This product must not be directly used for clinical diagnosis or treatment.