



Recombinant Trypsin (Liquid)-Pharmacopoeia Grade

Catlog Number: PE-1480

• Overview

Introduction: Trypsin specifically cleaves peptide bonds at the C-terminal of lysine and arginine and can degrade intercellular binding proteins. The amino acid sequence of recombinant porcine trypsin is consistent with that of porcine pancreatic trypsin, which is expressed and produced through recombinant E. Coli. It can replace the traditional extraction method of trypsin in various fields, including vaccine production, stem cell therapy, immune cell therapy, drug screening, antibody production, and other cell digestion processes. Enzyme activity can be inhibited by inhibitors such as aprotinin and soybean trypsin inhibitor.

Product Advantage: Meets pharmacopoeia standards: meets the relevant criteria for recombinant trypsin in the pharmacopoeia.

Amogenic: recombinant production, the production process does not use any raw materials of animal origin. No exogenous virus contamination, safe to use.

High purity: recombinant production, free of hybrid enzymes, host proteins and DNA residues in accordance with pharmacopoeia standards.

Cell digestion: high purity, avoiding the impact of impurities on cell growth. The specific activity is high, and the amount of trypsin added is low to achieve the desired digestion effect.

Quality: Stable continuous batch supply, small difference between batches, stable quality. Production process follows NSF ISO 9001: 2015 quality system and meet GMP guidelines, relevant regulatory supporting documents are available.

Method of Use: Solution Preparation:

To prepare the solution, allow the recombinant trypsin to melt at room temperature. According to the COA (Certificate of Analysis), take the appropriate amount of trypsin.

Add an HBSS equilibrium solution (or another buffer suitable for cell



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digestion). If necessary, add EDTA to a final concentration of 0-1 mM, preferably not exceeding 2 mM.

The recommended trypsin concentration for general use is approximately 0.1-0.3 mg/ml. Adjust the concentration according to the specific cell type. Gently mix the solution.

Use a 0.22 µm filter membrane to sterilely transfer the solution to a sterile container. This step can be performed at room temperature.

The filtered trypsin solution should be used directly on the same day as required. For example, add 1 ml to a T25 flask and incubate at 37°C to digest the cells. The solution can be stored at 2-8°C for 1-2 weeks.

Long-Term Preservation:

If good recombinant trypsin is used for cell digestion and long-term preservation is needed, store the solution at -20°C. It can be stably stored for up to 12 months.

Product Use: Cell culture aspects:

1. Tissue block digestion, primary cell acquisition;
2. Adherent cells;
3. The microcarrier method;
4. Stem cells;
5. Immune cell therapy, etc.

Recombinant protein aspects:

1. Recombinant insulin production;
2. Protein sequencing, peptide mapping;
3. Proteomics studies and other specific proteolytic processes.

• Specifications

Sizes: 100mg; 1g

CAS: 9002-07-7

EC: 3.4.21.4

Source: Recombinant porcine trypsin, produced by genetic engineering, identical to the amino acid sequence of porcine pancreas-derived trypsin.

Appearance: Clear, colorless or shallow yellow liquid

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Identification: Purple Positive

Specific Activity: ≥ 3800 (U/mg protein)

Purity: (RP-HPLC) β -trypsin $\geq 70\%$, α -trypsin $\leq 20\%$

Protein Concentration: 70 ± 10 mg/ml

E. Coli Host Cell Protein Residue: $\leq 0.01\%$

Host Cell DNA Residues: ≤ 10 ng/mg

Vitality Unit: 25°C , pH 7.6, reaction system 3.2 ml (1 cm optical path), enzymatic hydrolysis per minute BAEE make 253nm 0.003 is defined as a trypsin unit (USP).

• Package and Storage

Storage: Storage stability: Recombinant trypsin (liquid) is stored in -20°C , 24 months of stability.

Transportation: Transport stability: dry ice insulation transport, transport process does not melt, stable activity.

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