

## Recombinant Trypsin Solution

Cat. No.:	HY-129047B		
CAS No.:	9002-07-7		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

### Recombinant Trypsin Solution

#### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 100 mg/mL (Need ultrasonic)
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#### BIOLOGICAL ACTIVITY

Description	Recombinant Trypsin Solution is an animal-free trypsin solution used to digest cells or tissues. Recombinant Trypsin Solution has high stability at room temperature and gentle digestion, and can be used to digest weakly adherent cells or stem cells under low serum or serum-free culture conditions. Compared with traditional trypsin digestion solution, Recombinant Trypsin Solution does not contain any animal-derived ingredients, is gentle and effective, and can replace the application of animal-derived trypsin in cell digestion <sup>[1]</sup> .
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In Vitro	This product can be used for: 1) tissue digestion and primary cell acquisition; 2) passage digestion of adherent cells; 3) virus processing in viral vaccine production; 4) gentle digestion of stem cells.
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##### Protocol

1) Preheat the digestion solution and culture medium at room temperature or 37°C.

Note: At room temperature, preheated digestion solution can meet the digestion requirements of most adherent cells. For cells that are difficult to digest or where rapid digestion is required, preheat at 37°C for 10-20 minutes.

2) Remove the culture medium from the cell culture flask.

3) Add 5-10 mL of Mg<sup>2+</sup> and Ca<sup>2+</sup>-free PBS to the culture flask, wash the cells, and discard the washing solution. Repeat the operation 2-3 times.

4) Add 3-5 mL of digestion solution to the culture flask to ensure that the digestion solution can completely cover the bottom surface of the cells in the culture flask.

5) Incubate the culture flask at 37°C until cell digestion is completed.

Note: Cell digestion can be performed at 37°C or room temperature. During digestion, changes in cell morphology can be observed at intervals of 30-60 s, and the side walls of the cell culture flask can be gently tapped with hand. Digestion is considered complete when the cells become round and fall off in sheets. Different types of adherent cells may require different digestion times, so experiments are needed to find out the appropriate digestion time.

6) Immediately add 5-10 mL of preheated complete cell culture medium, gently pipet the cells with a pipette, and transfer the cell suspension to a 15 mL centrifuge tube.

7) Centrifuge at 100×g for 5-10 minutes and discard the supernatant. Add preheated complete culture medium and proceed with subsequent cell culture work.

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. L Yee, et al. Recombinant trypsin production in high cell density fed-batch cultures in Escherichia coli. Biotechnol Bioeng. 1993 Apr 5;41(8):781-90.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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