

## Accutase Cell Detachment Solution

Cat. No. : PB180201

Size: 100mL

### Product Description

Accutase is a cellular digest containing protein hydrolase and collagenase activity. It is the perfect replacement for pancreatin/EDTA digestion fluid and is used to digest cells from conventional tissue culture vessels and adhesion culture vessels. Accutase is used to digest cells from conventional tissue culture vessels and adhesion culture vessels, and particularly suitable for tissue dissociation and cell separation. Because the separated cells can maintain intact surface antigens and do not contain any animal or bacterial source components, it can meet the requirements of subsequent experiments such as cell surface labeling, virus growth analysis, flow cytometry and bioreactor related tests.

Compared with the traditional pancreatic digestive solution, our product has the following advantages:

① Suitable for digestion of most primary cells and mammalian cell lines, as well as insect cells; ② Gentle and efficient digestion of stem cells (Human/Mouse Embryonic Stem Cells, hESCs and mESCs), higher cell viability after freezing; ③ The separation of adherent cells was achieved within a few minutes, no need for cleaning or neutralization reaction, saving cell passage time; ④ It has a mild effect on cell digestion, which can increase cell yield and survival rate; enhance cell adhesion efficiency; improve cell morphology and cell growth characteristics, etc.

### General Information

Product Form	Liquid
Size	100mL
Solvent	DPBS (without $\text{Ca}^{2+}$ or $\text{Mg}^{2+}$ )
Storage	-5~20°C, 2 years; 2-8°C, 2 months
Shipping	Ice bag

### Use Instructions

1. Before using, the product should be thawed at 2-8°C and shaken thoroughly; When lesser amounts are required, aliquoting is advised to prevent repeated freeze-thaw cycles.
2. Wash the cells once with 1× Dulbecco's PBS without  $\text{Ca}^{2+}$  or  $\text{Mg}^{2+}$ .
3. In a sterile manner, add about 0.8-1 mL (according to the surface area of T25 flask) Accutase solution to the vessel and gently shake to infiltrate cells.
4. Put the flask into the incubator at 37°C to digest for about 2-15 min (The specific digestion status under the microscope is as follows: the cells shrink and become round, tap the culture vessel 3-5 times, and most of the cells fall off.)
5. After digestion, appropriate complete culture medium is added to the cells and mix, then passage and culture the cells according to experimental requirements.

### Notes

1. This product was sterilized by 0.1  $\mu\text{m}$  filtration and can be used directly after melting.
2. It is necessary to pay attention to the aseptic operation and avoid the contamination.

3. The product should be thawed at 2-8°C, do not melt this product at 37°C, otherwise it will affect the activity of the enzyme. Shaken thoroughly before use, when lesser amounts are required, aliquoting is advised to prevent repeated freeze-thaw cycles.
4. The digestion time can be adjusted according to the different reactions of different tissues or cells to Accutase solution. It is recommended to observe the digestion state under a microscope.
5. No additional washing and enzyme activity termination steps are required.
6. This product is only for scientific research or further research use, not for diagnosis and treatment.

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