

Product Information

Accutase Cell Detachment Solution

Cat. No.: ACC-1B (100 ml)

General Information

Accutase is a cell detachment solution of proteolytic and collagenolytic enzymes. It has been developed to meet the most demanding requirements for gentle and effective detachment of adherent cells. It is useful for the routine detachment of cells from standard tissue culture plasticware and adhesion coated plasticware.

The advantages of Accutase over the traditional Trypsin/EDTA treatment are that it is less damaging to cells leading to increased viability and no inactivation of the enzymes by inhibitors or serum is required. The Accutase solution does not contain mammalian or bacterial-derived products.

Applications

- Gentle detachment of a vast variety of cells including very sensitive cell lines e.g. hESCs
- Routine cell passage
- Analysis of cell surface markers
- Quiescence assays by serum starvation
- Transformation assays by oncogene transfection
- Neural crest cell migration assays, tumor cell migration assays
- Cell proliferation, apoptosis
- Production scale-up (bioreactor)
- Flow cytometry

Appearance	Clear, pale red to orange solution
Storage and shelf life	Store at $\leq -15^{\circ}\text{C}$ Once defrosted, store at $+2$ to $+8^{\circ}\text{C}$. Note: Do not thaw the product in a 37°C water bath. After thawing, the Accutase solution may be stored for up to 2 months at $+2$ to $+8^{\circ}\text{C}$. Do not store at room temperature.
Shipping conditions	Frozen (Dry ice)
Working concentration	1x (ready-to-use)
Origin	Crustacea

Formulation

Components	mg/l
EDTA 4Na	220
KCl	200
KH_2PO_4	200
NaCl	8000
Na_2HPO_4	1150
Phenol red	3
Accutase enzymes	1 x

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Composition

1× Accutase enzymes in Dulbecco's PBS without Ca and Mg (0.2 g/l KCl, 0.2 g/l KH₂PO₄, 8.0 g/l NaCl, and 1.15 g/l Na₂HPO₄) containing 0.5 mM EDTA · 4 Na and 3.0 mg/l phenol red.

Instruction for use

The Accutase solution is supplied as a sterile, ready-to-use, frozen liquid. Use aseptic techniques when handling this product.

1. Frozen products can either be thawed at room temperature or overnight at +2 to +8°C.
Note: Do not thaw the product in a 37°C water bath).
2. Remove medium from culture vessel by aspiration and wash the cells with a Ca⁺² and Mg⁺²-free salt solution (e.g. Dulbecco's PBS w/o Ca & Mg; Cat. No. PBS-1A). Remove salt solution by aspiration.
3. Add Accutase to the culture dish or flask using aseptic procedures, using 10 ml for each 75 cm² of surface area.
Note: Do not pre-warm Accutase in a 37°C water bath before adding to cells.
4. Return culture to 37°C incubator and allow cells to detach 5 – 10 minutes. The precise time needs to be determined for each cell line.
5. Count cells and passage as usual, no additional washes or enzyme inhibitors are required.

Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Help needed?

If you have any further questions regarding this product please do not hesitate to contact our cell culture experts:

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