

Product Information

Accutase Cell Detachment Solution

Cat. No.: N0100-710 Volume: 100 ml

Product Description

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
- hESC culturing
- 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

Product Specifications

pH	6.8 – 7.8
Osmolality	270 – 320 mOsm/kg
Appearance	Clear, pale red to orange solution
Sterility Tests	Bacteria, fungi and yeast
Activity Test	Cell detachment and enzyme activity assay
Concentration	1x (ready-to-use)
Origin	Crustacea
Volume	100 ml
Storage	≤-15°C. Once defrosted, store at +2 to +8°C. After thawing, the Accutase solution may be stored for up to 2 months at +2 to +8°C. Do not store at room temperature.

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.

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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.

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