Accutase®
(Cell Culture Grade)

Ordering info

TBZ0340, Accutase®, 100 mL

Description

Accutase® is an enzymatic mixture with protease and collagenase activity used as routine cell detachment solution. It allows a more gentle treatment of adherent cells than trypsin to detach cells from standard tissue culture plastic ware and adhesion coated plastic ware, and polymer. Cells detached by Accutase® are suitable for analysis of cell surface biomarkers, flow cytometry of receptors or extracellular epitopes, assays of cell proliferation, virus growth assay, quiescence assays by serum starvation, transformation assays by oncogene transfection, etc.

Storage

Store at -20°C. Stable 2 years. Defrost at 4°C !

The product is shipped on blue ice.

Appearence

Accutase® contains phenol red as a pH indicator. If frozen, it should be yellow and upon thawing, it becomes an orange liquid.

Functional tested

Features

- Ready to use.
- Does not contain mammalian or bacterial-derived products.
- Excellent cell viability.
- Wide range of cells tested including stem cells, primary cultures and cell lines*.
- Preserves most cell epitopes.

Applications

- Routine cell passage in replacement of trypsin treatment.
- Create single cell suspension for accurate cell counting.

* Valid for human embryonic, bone marrow, mesenchymal and neural stem cells, fibroblasts, endothelial cells, vascular smooth muscle cells, keratinocytes, hepatocytes, primary chick embryo neuronal cells, macrophages, adherent cell lines such as CHO, BHK, 293, L929, MRC5, 3T3, Vero, COS, HeLa, NT2, MG63, M24, A375, U251, D54, HT1080 and Sf9 insect cells.

PROTOCOL

1. Thaw Accutase® at 4°C.
2. Aspirate the media.
3. Wash cell culture with 4 mL DPBS (w/o calcium and magnesium) or PBS.
4. Add Accutase® to flask (10 mL per 75cm² surface area) using aseptic procedures.
5. Incubate at room temperature for 5-10 minutes up to a maximum of 1 hour, allowing cell detachment.
   Or cells can be left on ice for several hours.
   Optimal incubation times needs to be determined for each cell type.
6. Count cells and passage them as usual.
7. To determine the viable cell density, take a 20 µL sample of the cell suspension.
8. Resuspend the cells in fresh media and split into new flasks.
9. Incubate at 37 °C in a humidified 5% CO_2 incubator.