

## Datasheet

# Accutase

### Cell Detachment solution

Product	Description	Catalogue-No.	Size
Accutase	Cell detachment solution, ready-to-use	P10-2110M	20 ml
		P10-21100	100 ml
		P10-21500	500 ml

#### Product description

Accutase is a ready-to-use cell detachment solution made of collagenolytic and proteolytic enzymes. It is used for routine detachment of adherent cells from tissue culture plates and flasks. A multitude of cell types has been successful sub-cultured with Accutase, including fibroblasts, neurons, endothelial, vascular smooth muscle cells, hepatocytes, embryonal stem cells, and many immortalized cell lines such as adherent CHO and BHK cells, HEK 293, L929, HeLa, 3T3 as well as insect cells. Accutase is free of mammalian or bacterial products. Accutase can also be used for suspension cells to reduce cell clumping e.g. during cell cultivation or before FACS analysis.

#### Storage conditions

Storage: -20°C (in the dark), thawed at 2-8°C (up to 1 month)  
 Stability: 1 year from date of production  
 Size: 20 ml, 100 ml, 500 ml, other sizes on request

#### Composition

Accutase enzymes (activity > 500 U/ml) in DPBS, without Mg<sup>2+</sup>/Ca<sup>2+</sup>, with 0.5 mM EDTA and phenol red.

#### Suitability

Accutase can be used as a direct replacement of trypsin for cell dissociation and detachment.  
**FOR RESEARCH USE ONLY!**  
 Not approved for human or animal diagnostic or therapeutic procedures.

#### Special Advantages

- Ready-to-use solution
- Neutralizing of the Accutase enzymes is not required for routine cell culture passaging.
- The product is active at room temperature, no pre-warming required or recommended.
- Preserves most epitopes for subsequent flow cytometry analysis.
- Gentle detachment of cells for analysis of cell surface markers, transfection procedures, migration or proliferation assays, flow cytometry, and routine cell passage.

#### Instructions for Use

- Aspirate spent medium and wash 2x with 5 ml of DPBS (without Mg<sup>2+</sup>/Ca<sup>2+</sup>) per T25 flask; adjust volume according to size of culture vessel (e.g. 10 ml per T75, 1 ml per 24-well etc.)
- Add Accutase to culture vessel (5 ml per T25, other sizes see above) in aseptic procedure.
- Dispense enough Accutase solution into culture vessel(s) to completely cover the monolayer of cells 1-2 minutes, then remove excess Accutase solution.
- Cells detach at room temperature within 5 to 10 min.
- Tap flask to release cells.
- Resuspend cells in fresh cell culture medium and determine cell amount by trypan blue exclusion staining
- Split cells to desired cell density and transfer to a new culture vessel.
- Incubate at 37°C in a humidified CO<sub>2</sub> incubator.

**NOTE:** For embryonic stem cell cultures and cells cultured under serum-free conditions, a washing step is recommended to remove excess Accutase from cells; spin down cells as usual (e.g. 5 min at 200-300 g), remove Accutase and resuspend in fresh medium.

#### Technical Support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com)) or phone +49-8543-601630.