

## Datasheet

# Accumax

### Cell Dissociation solution

Product	Description	Catalogue-No.	Size
Accumax	Cell dissociation solution, ready-to-use	P10-21220	20 ml
		P10-21200	100 ml
		P10-21250	500 ml

#### Product description

Accumax is a ready-to-use solution of proteolytic and collagenolytic enzymes. It is used for creating single cell suspensions from clumped cell cultures for accurate cell counting, dissociation of spheroids into single cell suspensions, extension of sort times of clumpy cell samples on a fluorescence activated cell sorter, removal of cells from primary tissue and the routine detachment of cells from standard tissue culture plasticware and adhesion coated plasticware.

Cell lines tested for Accumax applications include fibroblasts, keratinocytes, vascular endothelial cells, hepatocytes, vascular smooth muscle cells, hepatocyte progenitors, primary chick embryo neuronal cells, bone marrow stem cells, adherent CHO and BHK cells, macrophages, 293 cells, L929 cells, immortalized mouse testicular germ cells, MRC5, 3T3, Vero, COS, HeLa, NT2, MG63, M24 and A375 metastatic melanoma, gliomas U251, D54, HT1080 fibrosarcoma cells, Sf9 insect cells, human embryonic stem cells, human mesenchymal stem cells and human neural stem cells.

Accumax contains no mammalian or bacterial derived products

#### Storage conditions

Storage: -20°C (in the dark), thawed at 2-8°C (up to 2 months)

Stability: 2 years from date of production

Size: 20 ml, 100 ml, 500 ml, other sizes on request

#### Composition

Accumax enzymes (activity 1200 - 2000 U/ml) in DPBS, w/o Mg<sup>2+</sup>/Ca<sup>2+</sup>, with 0.5 mM EDTA.

#### Suitability

Accumax can be used as a direct replacement of trypsin for cell detachment or collagenase for cell dissociation or as a anti-clumping agent for cell culture, flow cytometry, and FACS.

#### Special Advantages

- Ready-to-use solution
- Neutralizing of the Accumax 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 Accumax to culture vessel (5 ml per T25, other sizes see above) in aseptic procedure.
- Dispense enough Accumax solution into culture vessel(s) to completely cover the monolayer of cells 1-2 minutes, remove excess Accumax 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.

### 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.

---

FOR RESEARCH USE ONLY! Not approved for human or animal diagnostic or therapeutic procedures.