

Accutase® Cell Detachment Solution

CORNING



Accutase® is an effective cell detachment solution for the routine detachment of cells from standard tissue culture plasticware as well as enhanced surface and advanced surface coated cultureware. Accutase is useful for creating single-cell suspensions from clumped cell cultures for accurate cell counting. It contains proprietary marine-origin enzymes with proteolytic and collagenolytic activity for the detachment of primary and stem cell lines and tissues. Accutase provides a reduced contamination risk, because it is free of mammalian or bacteria-derived products.

Accutase cell detachment solution is:

- ▶ Efficient, with gentle detachment of adherent cells within minutes
- ▶ An alternative to Trypsin
- ▶ Able to eliminate neutralization or wash steps
- ▶ Convenient and cost effective

A tool to maximize viability, Accutase has standardized protocols for human mesenchymal stem cell (hMSC), human embryonic stem cell (hESC) lines, and human neural stem cell (hNSC) lines, either in adherent or neurosphere suspension cultures. It has demonstrated effectiveness on a wide variety of cell types, including:

Fibroblasts	Immortalized mouse testicular germ cells
Keratinocytes	3T3
Vascular endothelial cells	Vero
Hepatocytes	COS
Vascular smooth muscle cells	HeLa
Hepatocyte progenitors	NT2
Primary chick embryo neuronal cells	MG63
Bone marrow stem cells	M24 and A375 metastatic melanoma
Adherent CHO and BHK cells	Gliomas U251 and D54
Macrophages	HT1080 fibrosarcoma cells
293 cells	Sf9
L929 cells	



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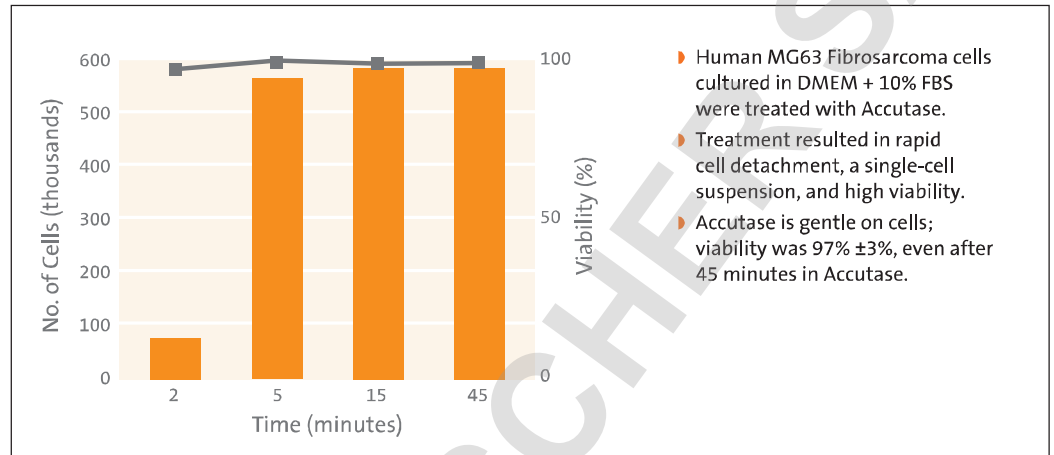
At Corning, cells are in our culture. In our continuous efforts to improve efficiencies and develop new tools and technologies for life science researchers, we have scientists working in Corning R&D labs across the globe, doing what you do every day. From seeding starter cultures to expanding cells for assays, our technical experts understand your challenges and your increased need for more reliable cells and cellular material.

It is this expertise, plus a 160-year history of Corning innovation and manufacturing excellence, that puts us in a unique position to offer a beginning-to-end portfolio of high-quality, reliable cell culture consumables.

Accutase®

Each lot of Accutase is tested for:

- ▶ Sterility by the USP membrane filtration method
- ▶ Enzymatic activity with synthetic chromagenic tetrapeptides
- ▶ Cell detachment from tissue culture-treated plastic



- ▶ Human MG63 Fibrosarcoma cells cultured in DMEM + 10% FBS were treated with Accutase.
- ▶ Treatment resulted in rapid cell detachment, a single-cell suspension, and high viability.
- ▶ Accutase is gentle on cells; viability was 97% ±3%, even after 45 minutes in Accutase.

Formulation

- ▶ 100 mL, ready to use, frozen, sterile liquid
- ▶ Accutase is formulated in Dulbecco's PBS (0.2 g/L KCl, 0.2 g/L KH₂PO₄, 8 g/L NaCl, and 1.15 g/L Na₂HPO₄) containing 0.5 mM EDTA·4Na and 3 mg/L phenol red

Cell Detachment – Instructions for Use:

1. Thaw Accutase at 2°C to 8°C or room temperature.
2. Wash the cells to be detached with sterile PBS.
3. Add undiluted Accutase cell detachment solution to adequately cover the entire area of the culture vessel, typically 10 mL per 75 cm² surface area, depending upon confluency and density of the cell culture.
4. Incubate at room temperature for 5 to 10 minutes, or at 37°C for faster cell detachment. Additional time and/or Accutase may be needed to disassociate three-dimensional structures.
5. Count the cells and passage as usual; in most cases, no additional washes or neutralization steps are required.

Note: Because the reagent does not contain universally proteolytic enzymes, it may not release all cell/tissue types uniformly. Some optimization of cell type and passage number, as well as incubation time and reagent strength, typically needs to be performed to optimize the reagent's effectiveness.

Ordering Information

Cat. No.	Description	Pack Size
25-058-CI	Accutase cell detachment solution	1 x 100 mL

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

For additional product or technical information, please visit www.corning.com/lifesciences/media or call 800.235.5476.

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