



# ACCUTASE

*The Gentle  
Detachment Solution*



# THE FACTS

## *Accutase instead of Trypsin*

Adherent cells must be detached from the surface of their cell culture flask during passaging with an enzymatic solution. This is generally achieved with Trypsin or Trypsin EDTA.

Unfortunately, Trypsin digests in an uncontrolled way and damages the cell surface. Neither inactivation nor rapid work can avoid this stress factor.

**Accutase on the other hand, gently detaches cells from the surface and reduces cellular stress.**

### CONTROLLED DETACHMENT OF CELLS FOR:

- ✓ Cell culture routine
- ✓ Migration and proliferation assays
- ✓ Analysing cell surface marker
- ✓ FACS analysis
- ✓ High Throughput Screening

### THESE EFFECTS ARE GUARANTEED

- » With Accutase, the surface proteins remain structurally and functionally intact
- » The cells reattach faster to the surface
- » Stress gets minimized during cell passaging
- » For sensitive cells, such as embryonic stem cells or neuronal cells, Accutase is not only the alternative, but a necessary prerequisite to work in a controlled, defined and reproducible way

## WHAT RESEARCHERS SAY

*about their experience with Accutase*

” We regularly use Accutase in cell culture and FACS applications using human embryonic stem cells and human induced pluripotent stem cells because these products give the best cell dissociation without compromising the health of our cells.”

Jennifer Ringler

Staff Research Associate, Hebrok Lab, UCSD

” I like that Accutase is gentle on cells and auto-inhibits at 37°C without the need for a neutralizing solution like with trypsin. Also, the cost of Accutase is less than trypsin + trypsin neutralizing solution, so it is cost-effective. It is also simpler to use, because it doesn't require the extra neutralizing step, I just lift my cells in Accutase, then add them directly into fresh media.

I believe everyone in my lab now uses Accutase. We work with a wide range of cancer cells and neuronal cells too, and it works great.”

Jennifer Smith Ph.D,

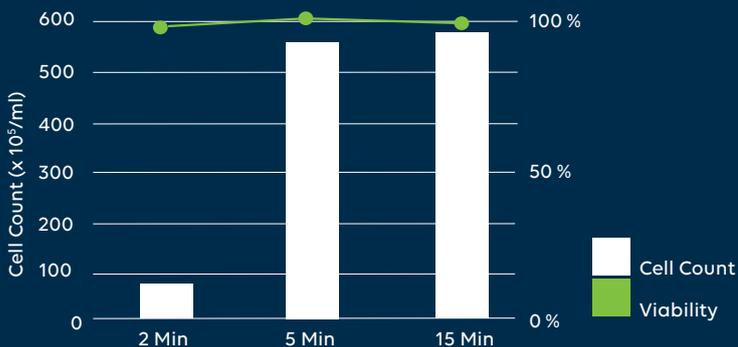
Postdoctoral Researcher, UCSB

# ADVANTAGES

## of Accutase

Accutase is a ready-to-use solution of enzymes that combines proteolytic and collagenolytic activity.

For consistent results, each batch is set to a standardised dissociation activity. The product does not contain bacterial or mammalian components, which may be important for some applications. Accutase is dissolved in a Dulbecco's PBS solution with EDTA and phenol red as indicator.



### TREATMENT OF CELLS WITH ACCUTASE

Incubation resulted in rapid cell detachment to a single cell suspension with high viability (97+/- 3%)

### ACCUTASE TRYPSIN

- ✓ ✓ Rapid detachment of adherent cells
- ✓ ✓ Max. viability and cell regeneration
- ✓ ✓ Easy to use
- ✓ ✓ Gentle detachment
- ✓ ✓ Fast reattachment time
- ✓ ✓ No neutralization necessary
- ✓ ✓ Non-mammalian origin



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Information

Phone: +49 6424 944 64-0

Fax: +49 6424 944 64-20

info@capricorn-scientific.com

techservice@capricorn-scientific.com

www.capricorn-scientific.com



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Capricorn Scientific GmbH  
Auf der Lette 13 A  
35085 Ebsdorfergrund  
Germany

Tel.: +49 6424 944 64-0  
Fax: +49 6424 944 64-20

info@capricorn-scientific.com  
techservice@capricorn-scientific.com

www.capricorn-scientific.com

