ScienCell™
Research Laboratories

CellEase (100 ml)
(CellEase)
Catalog #5813

Product Description
CellEase is a trypsin–EDTA solution specifically optimized for delicate adherent cells.
Designed for routine passaging and detachment of cells cultured on standard tissue culture plasticware or extracellular matrix-coated surfaces, CellEase offers high dissociation efficiencywhile preserving cell viability. CellEase is rigorously tested for sterility (USP membrane filtration method), and cell dissociation from tissue culture plastic. CellEase has demonstrated efficient detachment and dissociation of neural stem cells, neural crest cells, human pluripotent stem cell-derived lineages, primary glial cells, fibroblasts, epithelial cells, and keratinocytes. Its mild formulation makes it an ideal alternative to harsh proteases for delicate or highly specialized cell types.

Product Use
Thaw CellEase overnight at 2-8°C, at room temperature (15-25ºC). Do not thaw at 37°C. Mix thoroughly.

***Note**: Once thawed, use immediately or store at 2 - 8°C for up to 2 months. Alternatively, aliquot and store at -20°C. Do not exceed the expiry date on the label.*

Quality Control
CellEase is negative for bacteria and fungi and has an endotoxin level of less than 1 EU/mL. CellEase is tested on human pluripotent stem cells, neural stem cells and astrocytes for dissociation efficiency.

Storage
Store CellEase at -20°C. Once thawed, store at 4°C for up to one month.

Shipping
Dry ice.

Procedure

For delicate and easy to detach cell types:

1) Remove the culture medium, then rinse the cells with Ca^{2+}/Mg^{2+}-free DPBS.
2) Apply CellEase (~1 mL per 25 cm^2) to sufficiently wet the surface—then quickly aspirate it, leaving only a thin, moisture layer.
3) Incubate the plate at 37 °C for 2–5 minutes to release the cells.
4) Monitor detachment under a microscope. When cells round up, gently tap the vessel to encourage loosening.

5) Add pre-warmed complete medium and gently pipette to dislodge cells from the surface. Gently pipette to collect the cell suspension into a conical tube.
6) Centrifuge at 200 × g for 4–5 minutes. Aspirate the supernatant.
7) Resuspend the cell pellet in fresh medium, including ROCK inhibitor if necessary. Plate cells at the desired density.
8) Perform a complete medium change the next day.

For robust cell types

1) Remove the culture medium, then rinse the cells with Ca^{2+}/Mg^{2+}-free DPBS.
2) Apply approximately 2 mL of CellEase per 25 cm^2 to fully cover the surface.
3) Place the culture at 37 °C for 5–10 minutes. Gently rock the vessel every 2 minutes and tap it if additional detachment is needed. Monitor under a microscope until cells begin to round and detach.
4) Carefully add pre-warmed complete medium to rinse off the cells. Gently pipette to collect the cell suspension into a conical tube.
5) Spin at 200 × g for 4–5 minutes. Aspirate the supernatant.
6) Resuspend the cell pellet in fresh medium, including ROCK inhibitor if necessary. Plate cells at the desired density.
7) Perform a complete medium change the next day.

Caution: Product contains porcine pancreatic protease. If handled improperly, some components of this product may present a health hazard. Take appropriate precautions when handling this product, including the wearing of protective clothing and eyewear. Dispose of properly.