Rev. 1

Enzyme-free Cell Dissociation Solution (ECDS)

Catalog #0123

Product Description

Enzyme-free Cell Dissociation Solution (ECDS) is a sterile, phosphate and HEPES-buffered saline solution used to detach adherent primary cells from a culture surface. This product has a pH of 7.2 at room temperature.

Product Use

ECDS is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

Storage

Store the ECDS at 2-8°C.

Shipping

Room temperature.

Procedure

Incubating cells with ECDS for too long a time period may damage the cells. The time required to remove cells from the culture surface is dependent on cell type, population density, and serum concentration in the growth medium. The time of EDTA exposure should be kept to a minimum.

1) Remove medium from culture vessel by aspiration and wash the monolayer with Ca^{+2} and Mg^{+2}-free salt solution (DPBS; Cat #0303). Remove salt solution by aspiration.
2) Dispense enough ECDS into culture vessel to completely cover the monolayer of cells and place in 37°C incubator until 90% of cells are rounded up (monitor every 5 minutes with a microscope).
3) Transfer the ECDS solution to a centrifuge tube and dilute with an equal volume of fresh media.
4) Gently tap the side of the vessel to dislodge cells from the surface. Check under a microscope to make sure that all cells detach.
5) Add medium to the flask and collect the cells in the centrifuge tube. Rinse the flask with additional media to collect the residual cells.
6) Centrifuge the tube at 1000 rpm for 5 minutes. Resuspend cells in culture medium by gently and slowly pipetting the cell suspension.

Caution: 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.