



## Trypsin/EDTA Solution (T/E)

Catalog Number: 0103

### Product Description

Trypsin/EDTA solution (T/E) is a sterile, phosphate and HEPES-buffered saline solution. It contains 0.025% trypsin, 0.5 mM EDTA, 1 mM sodium pyruvate and 10 mM HEPES. This product has a pH of 7.4 at room temperature.

### Product Use

Trypsin/EDTA solution is used to detach adherent cells from a culture surface. *It is for research use only. Not for use in animals, humans, or diagnostic procedures.*

### Storage

Store the Trypsin/EDTA solution at  $-20^{\circ}\text{C}$ . Once thawed, the product may be stored at  $4^{\circ}\text{C}$  for up to one month.

### Shipping

Dry ice.

### Procedure

Incubating cells with too high a trypsin concentration for too long a time period will damage cell membranes and kill the cells. If unsure about the concentration of trypsin to use, use a low concentration. 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 trypsin exposure should be kept to a minimum.

- 1) Remove medium from culture vessel by aspiration and wash the monolayer with  $\text{Ca}^{+2}$  and  $\text{Mg}^{+2}$ -free salt solution to remove all traces of serum. Remove salt solution by aspiration.
- 2) Dispense enough trypsin/DTA solution into culture vessel to completely cover the monolayer of cells and place in  $37^{\circ}\text{C}$  incubator for approximately 2 minutes or until 80% of cells are rounded up (monitored with microscope).
- 3) Remove the trypsin/EDTA solution by aspiration and return closed culture vessel to incubator for 1 minute.
- 4) Add trypsin neutralization solution (Cat. No. 0113) or medium containing serum to the cells as soon as possible to inhibit further tryptic activity which may damage cells.
- 5) Cells can be harvested by gently pipetting the cell suspension. Further dilution can be made, if required, for cell counts and/or subculturing.

*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.*