



RecombIN™

Recombinant Porcine Trypsin

Source : Escherichia coli

Product Code: TCL162

Product Description:

RecombIN™ is a recombinant porcine trypsin expressed in *E.coli* optimized for cell dissociation in both serum-free and serum-supplemented adherent cell cultures. The advantages of using RecombIN™ are as follows:-

1. Animal origin-free: It eliminates the risk of viruses, TSE-BSE other adventitious agents.
2. Alternative for bovine/ porcine trypsin
3. Compatible with serum free and serum supplemented cultures.

RecombIN™ is a sterile filtered solution at the optimal concentration to dissociate adherent cell lines.

Direction:

Dissociation of cells from culture vessel

1. Remove the spent medium from the culture vessel by aspiration.
2. Wash the monolayer by adding balanced salt solution without calcium and magnesium to the side of the flask opposite the cells.
3. Rinse the cell sheet by rocking the flask for 1 to 2 minutes and discard the wash solution.
4. Add Trypsin or Trypsin EDTA solution to the side of the flask opposite the cells. The volume should be sufficient enough to completely cover the monolayer of the cells.
5. Rock the flask to ensure that the dissociation solution covers the cell sheet.
6. Incubate the flask at 37°C for 2 to 3 minutes. Monitor the process by observing the flask under inverted microscope. When dissociation is complete, the cells will be in suspension and appear rounded. In addition to rocking gently, flasks of cell lines that are characteristically difficult to remove from substratum may be tapped to expedite removal.

Note:- The exact time needed to dissociate cells will vary according to the cell line. The dissociation process should be monitored closely to avoid cell damage.

Once the cell dissociation is complete add serum containing complete medium to the flask to inhibit the tryptic activity which may further damage the cells.

Disperse the cells into a single cell suspension by pipetting repeatedly.

Count and subculture the cells.

Note:-

Concentration of Trypsin or Trypsin EDTA solution used for dissociation should be determined empirically for individual cell lines.

Time required for dissociation of cells from surface depends on cell type, cell density, potency of trypsin, serum concentration in growth medium and time since last subculture.

For serum free media, use Soybean Trypsin inhibitor (TCL068) 1:1 to neutralize the action of trypsin.

Quality Control:

Appearance

Colorless, clear solution

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

270.00 -310.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cell dissociation test

Passes

Storage and Shelf Life:

Store at -20°C.

Shelf life of the product is 24 months.

Use before the expiry date given on the product label.

Disclaimer :

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