BI
Biological Industries

Cell Dissociation Solution Non-enzymatic

A chemically defined, animal and human components free cell dissociation solution, designed as an alternative to trypsin for gently dissociation of cells when used in conjunction with serum-free or serum-containing media.

Cat. No.: 03-071-1B 100ml
03-071-1A 500ml
Store at: 2-8°C

Instructions for Use

Product Description

Special non-enzymatic solution formulated with a proprietary mixture of chelators for gently dislodging adherent cell types from plastic. Cell Dissociation Solution helps maximize the yield of functionally viable cells from culture vessels. It is designed to be an alternative to trypsin when used in conjunction with serum-free or serum-containing media. Cells can be exposed to the Non-Enzymatic Cell Dissociation Solution for longer periods of time without the risk of damage associated with protein digestive enzymes like trypsin.

Features

- Contains a proprietary mixture of chelators. Contains no enzymes or proteases.
- Works with serum-free and serum-containing media.
- Reduces the risk of cell damage associated with trypsin.
- Chemically defined reagent.
- Contains no products of animal origin.
- Supplied as a ready-to-use solution.

Precaution and Disclaimer

1. For in vitro diagnostic use.
2. Do not use if a visible precipitate is observed in the solution.
3. Do not use Cell dissociation solution beyond the expiration date indicated on the product label.

Instructions for use

The following instructions are applicable to most cell lines. Actual procedures and concentrations should be determined by experience with individual cell lines.

1. Pre-warm Cell Dissociation Solution to 37°C.
2. Drain and discard spent medium from culture vessel (flask, petri dish, etc.).
3. Wash the monolayer with approximately 2.0 ml of phosphate buffered saline (w/o Ca & Mg) or Cell Dissociation Solution.
4. Add the Dissociation Solution to the vessel (approximately 1.5 ml for 25 ml tissue culture flask) and gently swirl the vessel to cover the monolayer completely.
5. Incubate cells at 37°C, periodically observing under a microscope, until the cells begin to round up. Tapping the side of the vessel will facilitate removal of difficult cell lines.
6. After detachment, disperse cells into suspension by pipetting repeatedly.
7. Centrifuge the cells at 1000 rpm for 2-5 minutes. Remove as much of the Cell Dissociation Solution as possible and re-suspend the pellet on appropriate medium.

Notes

- It is important to maintain cells at incubator temperature (i.e. 37°C for mammalian cells) as much as possible.
- Amount of Cell Dissociation Solution used and length of time needed to dislodge cells will vary depending upon cell line and medium used.
- When working with serum-free medium it is recommended to first wash the monolayer with 1 mM EDTA in PBS before the dissociation.

Quality Control

Cell Dissociation Solution performance is tested using Vero cells pre-adapted to serum-free culture. Additional standard evaluations are pH, Osmolality and sterility tests.

Auxiliary products

Product	Cat. No.
Dulbecco's PBS (w/o Ca & Mg)	02-023-1
EDTA solution 0.05%	03-015-1
Papain dissociation solution	03-072-1
Crystalline Trypsin	03-047-1
Soybean Trypsin Inhibitor (SBTI)	03-048-1
Serum-Free Cell Freezing Medium	05-065-1
NutriVero VP1 ACF SFM	05-066-1
NutriVero VP2 ACF SFM	05-067-1

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