

## Instructions for Use

# 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.

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|--|----------|
| <b>REF</b>   | 03-071-1 |
|  | 2 – 8°C  |

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# 1 Product Description

Cell Dissociation Solution is a 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 culturewares. 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.

## 2 Precaution and Disclaimer

1. Do **not** use if a visible precipitate is observed in the solution.
2. Do **not** use Cell Dissociation Solution beyond the expiration date indicated on the product label.

## 3 Storage and Stability

Stable at 2–8°C until the expiry date stated on the label.

## 4 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.

## 5 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 cultureware (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 resuspend the pellet on appropriate medium.

**NOTE**

- 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.

## 6 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.

## 7 Quality Assurance

- For in vitro diagnostic use, research use or for use as ancillary material in manufacturing cell, gene or tissuebased products.
- Listed in Europe under CE IVD class I, thus comply with European In-Vitro Diagnostic Devices Directive (98/79/EC) requirements.
- Manufactured under ISO 13485 QMS and in compliance with applicable cGMP guidelines.
- Manufactured under controlled environments and processes in accordance with:
  1. ISO 13408 – Aseptic Processing of Health Care Products;
  2. ISO 14644 – Airborne Particulate Cleanliness Classes in Clean Rooms and Clean Zones.

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## 7.1 Product Label Symbols



Indicates the manufacturer's catalogue number so that the product can be identified.



Indicates the manufacturer's batch code so that the batch or lot can be identified.

**NOTE** Synonyms for batch code are lot number and batch number.



Indicates the date after which the product is not to be used.



Indicates the temperature limits to which the product can be safely exposed.



Indicates a product that has been manufactured using accepted aseptic techniques.



Indicates that the product meets the requirements of the applicable EC directives



Indicates a product that is intended to be used as an in vitro diagnostic medical device.



Indicates the need for the user to consult the instructions for use.

# 8 Related Products

| Product                                 | Cat. No. |
|---|----------|
| Dulbecco's PBS (w/o Ca & Mg)            | 02-023-1 |
| EDTA solution 0.05%                     | 03-015-1 |
| Crystalline Trypsin Solution            | 03-047-1 |
| Soybean Trypsin Inhibitor (SBTI)        | 03-048-1 |
| NutriFreez® D10 Cryopreservation Medium | 05-713-1 |
| NutriVero™ Flex 10 Medium               | 05-068-1 |



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Masculine or feminine forms are used to facilitate legibility in these instructions and always simultaneously denote the other gender as well.

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