Dispase Solution, 1mg/ml in DMEM-F12

CA092

Storage

Store at -20 °C.
Product is stable at -20 °C until expiration date on label.
Stable for 2 weeks if stored at 2 - 8 °C.
This solution should be thawed, aliquoted into working volumes, and refrozen.
Avoid repeated freeze-thaw cycles.

Contents

- Product manual
- Dispase Solution, 1mg/ml in DMEM-F12

Introduction

Dispase is a protease that is suitable for the gentle dissociation of a wide variety of tissues. Incubation of minced tissue with a pre-warmed dispase and gentle agitation will liberate cells with minimal cell damage. Pre-warmed dispase can also be used to harvest cells from tissue culture plastic. Unlike trypsin, dispase is not inhibited by serum. Dispase activity is inhibited by EDTA dn eGTA. Dispase should be removed from cell suspensions by centrifugation of the cells followed by washing of the cells with buffer or culture medium.

Instructions for use

Disaggreation of tissue

1. Fragment the tissue with a sterile scalpel or scissors.
2. Wash the tissue with a sterile PBS.
3. Incubate the fragemtns in the Dispase Solution at 37 °C.

Note: Make sure that the tissue fragments are well covered by the solution.

4. Stir slowly at 37 °C until the tissue is sufficiently dissolved.

Note: When using Dispase for the first time, determine the total reaction time by counting the cells. A time of one hour is required for hard compact tissue. The cells will not be adversely affected even after several hours in Dispase.

5. If necessary, seperate the dispersed cells from residual tissue by passing the mixture through a sterile stainless steel grid, or simply decant the cells after large fragments have settled. Fresh Dispase Solution may be added to the remaining tissue fragments if further disaggreation is required.
6. Spin the cells down and decant off the enzyme solution.
7. Resuspend the pellet in the culture medium and incubate under the normal predetermined conditions.

Subcultivation of cells

1. Cover the cells with Dispase Solution, prewarmed to 37 °C, incubate for 5 min at 37 °C.
2. Decant the Solution and incubate for a further 10 min at 37 °C.
3. Control detaching with the microscope, if necessary incubate for a further 15 min.
4. Suspend the cells in culture medium and spin the cells down, wash the cells with culture medium.
5. Resuspend the cells in fresh culture medium.
6. Plate the cells as usual.

Related Product

Product Name	Cat No
Scraptase	CA110
Trypsin-EDTA (10X), 0.5%	CA015
Trypsin, 2.5% (10X)	CA019
Trypsin-EDTA (1X), 0.05%	CA020

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