BI
Biological Industries

Serum-Free Cell Freezing Medium

A chemically defined, animal components-free freezing medium, designed for the cryopreservation of animal cells.

Cat. No.: 05-065-1C 20 ml
Store at: +2-8°C

Instructions for Use

Product Description

There are many problems associated with the use of animal sera e.g. the risk of contamination with viral agents such as BSE, Hepatitis, HIV, BVD, or other potential adventitious agents. The culture of cells in animal component-free medium eliminates those risks. Furthermore, it allows cells to be grown under a defined set of conditions. When using serum-free media in cell culture, it is important to cryopreserve cells also in a medium free of serum.
The novel cell freezing medium that has been developed by Biological Industries contains no serum, but rather methylcellulose and DMSO. After freezing and thawing, a very high percentage of viable cells are obtained, excellent attachment ability and growth performance. In fact, comparative studies have shown that in most cases higher viability and adhesion percentages are obtained in comparison to serum-containing freezing medium. Therefore, the use of this Serum-Free Freezing Medium is also recommended for cell culture employing serum-supplemented growth media.

Features

- Animal-components free (ACF)
- A complete ready-to-use solution
- Suitable for various animal cells
- Suitable of cells cultured in serum-free and serum-containing media
- High cell viability after thawing

Precaution and Disclaimer

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

Instructions for use

Cryopreservation of serum-free Cultures:

1. For freezing adherent cells, detach cells using dissociation solution according to the manual instructions. For freezing of cells in suspention skip to step 2.
2. Centrifuge to pellet the cells (200-300g 3-5 minutes).
3. Suspend the pellet in cold Serum-Free Freezing Medium at a concentration of 3-5 million cells per ml.
4. Freeze the cells gradually (1-2°C per minute) and store them in liquid nitrogen.
5. Viability and recovery of cryopreserved cells should be checked 24 hours after storage of vials in liquid nitrogen by following the thawing procedure outlined below.

Thawing of Cryopreserved serum-free cells:

1. Thawing should be performed at 37°C.
2. Immediately after thawing, suspend the cells in serum-free growth medium at a ratio of at least 1:10.
3. Centrifuge and suspend in growth medium as desired.
4. Culture the cells according to the recommended seeding density.

Quality Control

Each lot performance is evaluated for cell viability, cell attachment and proliferation after cryopreservation and thawing.

Auxiliary products

Product	Cat. No.
Dulbecco's PBS (w/o Ca & Mg)	02-023-1
Crystalline Trypsin	03-047-1
Soybean Trypsin Inhibitor (SBTI)	03-048-1
Cell dissociation solution –non enzyamtic	03-071-1
Papain dissociation solution	03-072-1
Papain dilution buffer	02-050-1

BI
Biological Industries
Culture of Excellence

Biological Industries Israel Beit Haemek Ltd.
Kibbutz Beit Haemek 25115, Israel
T.+972.4.9960595 F.+972.4.9968896
Email: info@bioind.com
www.bioind.com