Freeze Medium CM-1 - 100 ml

800100

Cytion's Freeze Medium CM-1 is a state-of-the-art cryopreservation medium designed to ensure the highest level of cell viability and functionality post-thaw. This versatile medium is suitable for a broad spectrum of cell types, including both human and animal cells, making it an essential tool for diverse research applications. Formulated with a meticulously balanced combination of cryoprotectants and essential nutrients, Freeze Medium CM-1 minimizes ice crystal formation and cellular stress during the freezing process, thus preserving cellular integrity.

Key features of Freeze Medium CM-1 include:

Broad Compatibility: Effective for a wide range of cell types, including primary cells, stem cells, and established cell lines.

High Viability: Optimized to maximize post-thaw cell recovery and viability, ensuring reliable experimental outcomes.

Ready-to-Use: Conveniently prepared and sterilized for immediate application, reducing preparation time and risk of contamination.

Enhanced Stability: Maintains consistent performance under standard cryopreservation conditions, ensuring reproducible results.

Long Shelf Life: CM-1 is a serum-containing, ready-to-use cryopreservation medium that can be stored in the refrigerator for up to one year.

Using CM-1 for Freezing Cells

To use CM-1 for freezing both adherent and suspension cells, follow these steps:

For adherent cells, wash and dissociate them from the culture substrate. For suspension cells, proceed directly to the next step.

Count the cells to ensure they are at the proper concentration.

Centrifuge the cells to pellet them, then resuspend in CM-1 freeze medium.

Transfer the resuspended cells into cryovials.

Use a slow-freezing method before transferring the cells to long-term storage.

Method

Description

Steps

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Manual Freezing

A step-by-step method involving gradual temperature reduction to ensure cell viability.

1□ Place cells in freeze medium in a 4°C freezer for 40 minutes.

2□ Transfer to a -80°C freezer for 24 hours.

3□ Store cells in liquid nitrogen for long-term preservation.

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Using Mr. Frosty

A convenient device that allows for controlled freezing rates without electrical power.

1□ Prepare cells in cryovials with freeze medium.

2□ Place cryovials in Mr. Frosty container.

3□ Store at -80°C for 24 hours before transferring to liquid nitrogen.

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Controlled-Rate Freezer

A high-precision freezer by Thermo Fisher or other manufacturers designed for controlled temperature reduction.

1□ Program the device to gradually decrease the temperature.

2□ Place prepared cells in the freezer.

3□ After the freezing cycle, transfer cells to liquid nitrogen.

Store the cryovials at temperatures below -130°C or in liquid nitrogen for long-term preservation.

Ingredients

Contains FBS, DMSO, Glucose, Salts

Buffering capacity: pH = 7.2 to 7.6

Cytion's Freeze Medium CM-1 offers a reliable solution for cryopreservation, ensuring high cell viability and functionality post-thaw for a wide range of research applications.

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