

Vivify-1X™ Complete Cell Freezing Medium

Purpose

The purpose of this document is to provide guidance on the proper use and storage of Vivify-1X™ (Cat # 600-100). This complete cell freezing medium may be used in any standard protocol for cryogenic storage or according to the directions below as provided by Gemini Bio-Products.

Storage

Vivify-1X™ Complete Cell Freezing Medium must be stored frozen (-20 °C) until ready for use. Storage under other conditions (including refrigeration or -70 °C) could affect overall performance.

In order to ensure the highest quality product, changes in temperature should be minimized. Accordingly, Vivify-1X™ is aliquotted into convenient 10-mL bottles, so the entire bottle may be used at once.

Cryopreservation Protocol for Suspension Cells

For optimum results, cells should be prepared for storage while in the log phase of growth. We provide the following protocol which may be used:

1. Thaw the Vivify-1X™, mix well, and maintain on wet ice.
2. Gently pellet the cells by centrifugation (5 minutes at 150 x g) and remove as much of the growth medium as possible.
3. Resuspend the cells in Vivify-1X™ at 10^7 to 10^8 cells/mL. Certain cell types may require a higher cell density.
4. Aliquot cells into cryo vials, holding them on wet ice until freezing begins (within 5 minutes).
5. Freeze cells for long-term storage according to standard protocols.

Cryopreservation Protocol for Adherent Cells

For optimum results cells should be prepared for storage while in the log phase of growth. We provide the following protocol which may be used:

1. Thaw the Vivify-1X™, mix well, and maintain on wet ice.
2. Carefully dissociate adherent cells from the substrate with trypsin or by other appropriate means.
3. Resuspend the detached cells in the culture medium they were grown in.
4. Gently pellet the cells by centrifugation (5 minutes at 150 x g) and remove as much of the growth medium as possible.
5. Resuspend the cells in Vivify-1X™ at 5×10^6 to 1×10^7 cells/mL. Certain cell types may require a higher cell density.
6. Aliquot cells into freezing vials, holding them on wet ice until freezing begins (within 5 minutes).
7. Freeze cells for long-term storage according to standard protocols.

Thawing of Frozen Cells

You may safely thaw frozen cells according to your own protocol or as follows:

1. Remove cells from frozen storage and quickly thaw in a 37 °C water bath.
2. Dilute 1 mL of cell suspension with 10 mL of complete growth medium.
3. Gently mix and pellet cells by gentle centrifugation.
4. Resuspend cells in complete growth medium and plate in appropriate vessels.