CD-Freezer™ Medium

Cat. No.: CC520-0100 Size: 100 mL

Description

CD -Freezer™ Medium is a ready-to-use, cryopreservation medium containing DMSO and suitable for cell lines cultured with serum-free or serum-contained media. CD -Freezer™ Medium is chemically defined and animal origin-free medium to avoiding contamination from virus, fungus and mycoplasma.

Quality Control

The quality of the CD -Freezer™ Medium is tested on a lot-to-lot basis to ensure consistent product quality.

CD -Freezer™ Medium Protocol

Cryopreservation

For optimum results, cells should be in mid-log phase of growth with >90% viability at the time of freezing. Similar protocols may be substituted.

1. To keep CD -Freezer™ Medium at 2°C to 8°C until use. For suspension cells proceed to step 3. For adherent cells, gently detach cells from the substrate on which they are growing using a suitable dissociation reagent such as TrypRC Red. Resuspend cells in complete medium required for that cell type.
2. Transfer cell suspension to a sterile 15-mL centrifuge tube.
3. Determine the viable cell density and percent viability and calculate the required volume of CD -Freezer™ Medium to give a final cell density of 1 × 10^6 to 1 × 10^7 cells/mL.
4. Gently pellet the cells by centrifugation.
5. Aseptically decant supernatant without disturbing the cell pellet.
   Note: Centrifugation speed and duration may vary depending on cell type.
6. Resuspend the cell pellet in (2°C to 8°C) chilled CD -Freezer™ Medium at recommended viable cell density for specific cell type (typically 1 × 10^6 cells/mL or greater) .
7. Dispense aliquots of cell suspension (mix frequently to maintain a homogeneous cell suspension) into cryovials according to the manufacturer's specifications (i.e., 1.5 mL in a 2-mL cryovial).
8. Achieve cryopreservation in an automated or manual controlled rate freezing apparatus following standard procedures (approximately 1˚C decrease per minute).
9. Transfer frozen cells to liquid nitrogen, (vapor phase) storage at –200°C to –125°C is recommended.

Recovery

1. Remove cells from cryo-storage and rapidly thaw (<1 minute) frozen vial in a 37°C water bath until only a small amount of ice remains.
2. Transfer cell suspension to a sterile 15-mL conical tube. Add, dropwise, the appropriate pre-warmed complete growth medium to a total volume of 10 mL. Ensure complete mixing with regular gentle swirling.
3. Centrifuge cell suspension at 100–200 × g for 5–10 minutes.
   Note: Centrifugation speed and duration may vary depending on cell type.
4. Ascertain presence of cell pellet. Aseptically decant supernatant without disturbing the cell pellet.
5. Gently resuspend cell pellet in an appropriate volume (e.g., 5 mL per 25 cm^2 surface area) of pre-warmed complete growth medium.
6. Transfer cell suspension to sterile culture vessel and place into the recommended culture environment.

Related Ordering Information

Cat. No.	Description	Size
CC507-0100	0.5% Trypsin-EDTA, 10X	100 mL
CC508-0100	0.25% Trypsin-EDTA, 1X	100 mL
CC512-0100	TrypRC Clear,1X	100 mL
CC513-0100	TrypRC Red,1X	100 mL

Caution

- During operation, always wear a lab coat, disposable gloves, and protective equipment.
- All products are for research use only.