Ceracryo Xeno-Free Cell Freezing Media

C0667

Storage

Store below -20°C in the dark for long term storage.

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Introduction

Ceracryo Xeno-Free Cell Freezing Media is a defined and animal component-free medium for the cryopreservation of mammalian cells. Simply count your cells, centrifuge them and re-suspend the cell pellet in the desired colume of Ceracryo Xeno-Free Cell Freezing Media and dispense into cryopreservation vials.

Ceracryo Xeno-Free Cell Freezing Media is a proprietary formulation based on Dul -becco's Modified Eagle Medium (High Glucose) with optimized levels of recombinant Human Serum Albumin, Recombinant Transferrin, growth factors, hormones, lipid and other nutrients serum and DMSO (10%) providing improved viability and cell recovery after thawing.

In comparison with other commercially available cryopreservation solutions, Ceracryo Xeno-Free Cell Freezing Media shows better post-thaw viability and cell reattachment, and better overall recovery (fewer lysed/destroyed cells).

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Ceracryo Xeno-Free Cell Freezing Media results 15-40% increase of cell viabilities in the cryopreservation of both adherent and suspension cell lines.

Cryopreservation

1. Ceracryo Xeno-Free Cell Freezing Media, mix well and keep at 2 °C to 8 °C until use.
2. 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 Scaptase.
   Resuspend cells in complete medium required for that cell type.
3. Transfer cell suspension to a sterile 15-mL centrifuge tube.
4. Determine the viable cell density and percent viability using cell counter (similar automated or manual methods may be used) and calculate the required volume of Ceracryo Xeno-Free Cell Freezing Media to give a final cell density of $1x10^6$ to 1x107 cells/ml.
5. Centrifuge cell suspension at 100-200 xg for 5-10 minutes.
6. Resuspend the cell pellet in (2°C to 8°C) chilled Ceracryo Xeno-Free Cell Freezing Media at recommended viable cell density for specific cell type (typically $1x10^6$ 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., 1.5mL 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 rapid 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 10mL. Ensure complete mixing with regular gentle swirling.
3. Centrifuge cell suspension at 100-200 xg 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 dis -turbing the cell pellet.
5. Gently resuspend cell pellet in an appropriate volume (e.g., 5mL 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 Products

Product Name	Cat No
Albumin	A0100
Ceracryo Cell Freezing Media, Xeno Free	C0667
Cellmaxin Plus, 10.5mg/ml	C3319
Ceracol Collagen Type I Solution, 1mg/ml	CA081
Scraptase, Non-Animal Origin Dissociation Reagent	CA110
Dispase Solution, 1mg/ml	CA092
Insulin-Transferrin-Selenium Solution I (1,000X), Animal Free	CA200
Fetal Bovine Serum, Premium, US Origin	F0600
FBS, Mouse Embryonic Stem cell and iPSC Optimized	F0650
FBS OptiGold	F0900
FBS OptiGold, Premium, Heat Inactivated	F0910
Fungizol PS (100X)	F2100
LIF, Mouse Recombinant, 10 MIU/ml	L4501
WATER, 0.1um Final Filtered, cell culture tested	W0900

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