REVIVE ORGANTECH, Inc



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Specification Sheet

Product Name	CRYO-DMSO-F, liquid, sterile-filtered, 100 mL
Product Number	10005-01
Product Brand	Revive Organtech, Inc
Storage Temp	2-8°C
TEST	SPECIFICATION
Appearance (Turbidity)	Clear liquid
Appearance (Form)	Solution
рН	7.80~8.20
Sterility	Sterile Filtered (0.22uM)
Endotoxin Level	N/A
Instructions for use	CRYO-DMSO-F is a serum-free, protein free, animal origin-free, DMSO Free and fully defined cryopreservation medium. Designed to prepare and preserve cells in ultralow temperature environments (-80 to -196°C), CRYO-DMSO-F provides a safe, protective environment for cells during the freezing, storage, and thawing process. CRYO-DMSO-F contained proprietary components which are directly reducing the level of freezing induced apoptosis and necrosis and improving post-thaw cell viability and function. CRYO-DMSO-F is recommended for the preservation of Primary cells, iPSC, MS, MSC, Oocyte, Embryo, CAR-T, NK, and Macrophage cells. CRYO-DMSO-F is cGMP-mimic condition manufactured with high quality grade components. Preparation instructions The CRYO-DMSO-F solution is ready-to-use and complete with no additives required. Wipe down the outside of container with 70% alcohol before opening as the contents are sterile. If the seal has been broken, do not use it. Storage/Stability Store the CRYO-DMSO-F solution at 2-8°C and protected from light until ready to use it. Freezing Procedures 1. Suspended cell to be cryopreserved using mechanically or enzymatically dissociation.

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- 2. Centrifuge the cells to obtained pellet.
- 3. Remove supernatant (remove the culture media as possible to reduce dilution of the CRYO-DMSO-F solution).
- Add Ambient temperature CRYO-DMSO-F solution to a cell concentration range of 1-10×10⁷ cells / 1 ml of CRYO-DMSO-F for standard cell culture protocol.
- 5. After mixed with CRYO-DMSO-F solution with cells, incubated for 10 minutes at 1~4°C to penetrate cryoprotectants inside of cells (in case of small tissue or organoid, 20 minutes incubation at 1~4°C)
- 6. Nucleation-lower sample temperature -80°C; After cells are mixed with solution, put cryovial into controlled rate freezer (-1°C/minute) and then freeze to -80°C (slow freezing method), or put cryovial into Bicell, Mr. Frosty Freezing container, or similar kinds of slow freezing container and put the cryovial included in such slow freezing container into -80 °C freezer.

Storage

 After finished the nucleation of cells at-80°C freezer or controlled rate freezer, store the freeze cell at liquid nitrogen tank (below -130°C).

Thawing Procedures

- 1. Thaw samples quickly in a 37°C water bath. Samples should be thawed with gentle swirling of the sample until all visible ice has melted (*Do not allow sample to warm above chilled temperatures*(0-10°C). Cryovials should be cool to the touch when removed from the water bath).
- Dilute cell/CRYO-DMSO-F mixture immediately with appropriate culture medium. Add 20 ml of culture medium to 50 ml conical tube and gently mix with thawed cell/CRYO-DMSO-F mixture to culture medium (The dilution culture medium should be 20~37°C). A dilution ratio of 1:20 V: V (1 mL of thaw cell + 20 ml of culture media) or greater is recommended. After diluting cells with warmed culture medium, gently inverted for 5~10 times and follow by centrifuge (recommend at 400G for 5 minutes).
- 3. After centrifuge, completely suction of supernatant and add new warmed culture media.
- 4. Plate the cells appropriately and cultured the cells or use immediately.