REVIVE ORGANTECH, Inc



18 Technology Drive Suite 156 Irvine CA, USA, 92618

Specification Sheet

Product Name	CRYO-JIN™, liquid, sterile-filtered, 100 mL
Product Number	10004-01
Product Brand	Revive Organtech, Inc
Storage Temp	2-8°C
TEST	SPECIFICATION
Appearance (Turbidity)	Clear, Yellow Color
Appearance (Form)	Solution
рН	7.80~8.20
Sterility	Sterile Filtered (0.22uM)
Endotoxin Level	N/A
Instructions for use	CRYO-JIN™ is a premium primary hepatocyte cryopreservation medium. Designed to prepare and preserve hepatocyte in ultralow temperature environments (-80 to -196 °C), CRYO-JIN™ provides a safe, protective environment for hepatocyte during the freezing, storage, and thawing process. CRYO-JIN™ contained proprietary components which are directly reducing the level of freezing induced apoptosis and necrosis and improving post-thaw hepatocyte viability and function. CRYO-JIN™ is recommended for the preservation of primary hepatocyte. CRYO-JIN™ is cGMP-mimic condition manufactured with high quality grade components. Preparation instructions The CRYO-JIN™ 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. Storage/Stability Store the CRYO-JIN™ solution at 2-8°C and protected from light until ready to use. Freezing Procedures for Cells 1. Suspended cell to be cryopreserved using mechanically or enzymatically dissociation. 2. Centrifuge the cells to obtained pellet. 3. Remove supernatant (remove the culture media as possible to reduce dilution of the CRYO-JIN™ solution).

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- 4. Add Ambient temperature CRYO-JIN™ solution to a cell concentration range of 1-10×10⁶ cells/mL for standard cell culture protocol.
- 5. After mixed with CR CRYO-JIN™ 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 procedures for cells

 After finished the nucleation of cryo samples at-80°C freezer, store the freeze samples at liquid nitrogen tank for long term storage (below -130°C).

Thawing procedures for cells

- 1. Thawing the freeze hepatocyte quickly at 37°C water bath. hepatocyte should be thawed with gentle swirling of the hepatocyte until all visible ice has melted.
- Dilute cell/CRYO-JIN™ mixture immediately with appropriate thawing medium. The dilution thawing medium should be 20~37°C. A dilution ratio of 1:50 (sample: thawing medium) is recommend. After diluting cells with warmed hawing medium, gently inverted for 5~10 times and follow by centrifuge (Highly recommend at 50G 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.