CryoStor® CS2

Animal component-free, defined cryopreservation medium with 2% DMSO

Catalog # 07932 100 mL

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Product Description

CryoStor® CS2 is a uniquely formulated serum-free, animal component-free, and defined cryopreservation medium containing 2% dimethyl sulfoxide (DMSO). Designed to preserve cells in ultra low-temperature environments (-80°C to -196°C), CryoStor® CS2 provides a safe, protective environment for cells and tissues during the freezing and thawing processes and during storage.

- Ready-to-use
- Serum-free and protein-free
- Animal component-free
- cGMP manufactured with USP grade/highest-quality components
- FDA master file
- Sterility, endotoxin, and cell-based quality control testing

Properties

Storage: Store at 2 - 8°C.

Shelf Life: Stable until expiry date (EXP) on label. Product should be protected from prolonged exposure to light.

Contains:
- 2% dimethyl sulfoxide (DMSO)
- Other ingredients

Product may be shipped at room temperature (15 - 25°C); refrigerate upon receipt.

Handling / Directions For Use

FREEZING

For freezing human embryonic stem (ES) cells and induced pluripotent stem (iPS) cells, use CrysStor® CS10 (Catalog #07930). For further information, refer to the Technical Manual: Maintenance of Human Pluripotent Stem Cells in mTeSR™1 (Document #28315).

1. Wipe down the outside of the CryoStor® CS2 container with 70% ethanol or isopropanol before opening.
2. Obtain a cell suspension using a cell-specific protocol and centrifuge cells to obtain a cell pellet.
3. Carefully remove the supernatant with a pipette, leaving a small amount of medium to ensure the cell pellet is not disturbed. Resuspend the cell pellet by gently flicking the tube.
4. Add cold (2 - 8°C) CryoStor® CS2, mix thoroughly and transfer the suspension to a cryovial.
5. Incubate cells at 2 - 8°C for 10 minutes.
6. Freeze cells using a standard slow rate-controlled cooling protocol (approximately -1°C/minute) or an isopropanol freezing container and store at liquid nitrogen temperature (-135°C).
   NOTE: Long-term storage at -80°C is not recommended.

THAWING

1. Warm medium of choice in a 37°C water bath.
2. Wipe the outside of the vial of cells with 70% ethanol or isopropanol.
3. In a biosafety hood, twist the cap a quarter-turn to relieve internal pressure and then retighten.
4. Quickly thaw cells in a 37°C water bath by gently shaking the vial. Remove the vial when a small frozen cell pellet remains. Do not vortex cells.
5. Wipe the outside of the vial with 70% ethanol or isopropanol.
6. Dilute in warmed medium of choice at a ratio of 1 part sample in 10 parts medium.
7. Centrifuge the cell suspension at 300 x g for 10 minutes at room temperature (15 - 25°C).
8. Carefully remove the supernatant with a pipette, leaving a small amount of medium to ensure the cell pellet is not disturbed. Resuspend the cell pellet by gently flicking the tube.
9. Gently add medium to the tube.
10. Repeat steps 7 and 8.