CryoStor® CS5

Animal component-free, defined cryopreservation medium with 5% DMSO

Catalog #	07949	5 x 10 mL
	07933	100 mL
	07953	100 mL Bag

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Product Description

CryoStor® CS5 is a uniquely formulated, serum-free, animal component-free, and defined cryopreservation medium containing 5% dimethyl sulfoxide (DMSO). Designed to preserve cells in low-temperature environments (-80°C to -196°C), CryoStor® CS5 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

Product Information

PRODUCT NAME	CATALOG #	SIZE	STORAGE	SHELF LIFE	CONTAINS
CryoStor® CS5	07949	5 x 10 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label. Protect from prolonged exposure to light.	5% DMSO
CryoStor® CS5	07933	100 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label. Protect from prolonged exposure to light.	5% DMSO
CryoStor® CS5	07953	100 mL Bag	Store at 2 - 8°C.	Stable for 24 months from date of manufacture (MFG) on label. Protect from prolonged exposure to light.	5% DMSO

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 CryoStor® 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® CS5 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® CS5, 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. Do not submerge the vial. Remove the vial when only 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.

THIS PRODUCT IS MANUFACTURED UNDER A cGMP QUALITY MANAGEMENT SYSTEM COMPLIANT TO 21 CFR 820.