

# CryoStor® CS10

## Animal component-free, defined cryopreservation medium with 10% DMSO

Catalog #	07959	5 x 10 mL
	07952	16 x 10 mL
	07931	5 x 16 mL
	07930	100 mL
	100-1061	100 mL
	07955	100 mL Bag
	07940	1000 mL Bag



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## Product Description

CryoStor® CS10 is a uniquely formulated, serum-free, animal component-free, and defined cryopreservation medium containing 10% dimethyl sulfoxide (DMSO). Designed to preserve cells in low-temperature environments (-70 to -196°C), CryoStor® CS10 provides a safe, protective environment for cells and tissues during the freezing, storage, and thawing processes. CryoStor® CS10 is recommended for the cryopreservation of hepatocytes, tissue samples, blood-derived cells, CHO cells, myeloma cell lines, hybridomas, human mesenchymal stem cells, human embryonic stem cells (hESCs) and induced pluripotent stem cells (hiPSCs), and other extremely sensitive cell types.

- Ready-to-use
- Serum-free, 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

CATALOG #	SIZE	STORAGE	SHELF LIFE	CONTAINS
07959	5 x 10 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label. Protect from prolonged exposure to light.	10% DMSO
07952	16 x 10 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label. Protect from prolonged exposure to light.	10% DMSO
07931	5 x 16 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label. Protect from prolonged exposure to light.	10% DMSO
07930	100 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label. Protect from prolonged exposure to light.	10% DMSO
100-1061*	100 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label. Protect from prolonged exposure to light.	10% DMSO
07955	100 mL Bag	Store at 2 - 8°C.	Stable for 2 years from date of manufacture (MFG) on label. Protect from prolonged exposure to light.	10% DMSO
07940	1000 mL Bag	Store at 2 - 8°C.	Stable for 2 years from date of manufacture (MFG) on label. Protect from prolonged exposure to light.	10% DMSO

\* New bottle type; for more information, contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

Refer to the Safety Data Sheet (SDS) for hazard information.

Product may be shipped at room temperature (15 - 25°C) and should be refrigerated upon receipt.

## Directions for Use

### CRYOPRESERVING CELLS

For cryopreserving human embryonic stem cells (hESCs) and induced pluripotent stem cells (hiPSCs) refer to the Technical Manuals for mTeSR™1 or mTeSR™ Plus for further information, available at [www.stemcell.com](http://www.stemcell.com), or contact us to request a copy.

1. Wipe down the outside of the CryoStor® CS10 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® CS10, mix thoroughly, and transfer the suspension to a cryovial.
5. Incubate cells at 2 - 8°C for 10 minutes.
6. Cryopreserve cells using a standard slow rate-controlled cooling protocol (approximately -1°C/minute) in an isopropanol or alcohol-free freezing container (e.g. Corning® CoolCell® LX Cell Freezing Container, Catalog #200-0642). Freeze at -80°C for ~ 4 hours or overnight, then store at liquid nitrogen temperature (-135°C).

NOTE: Long-term storage at -80°C is not recommended.

### THAWING CELLS

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 cabinet, 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 swirling the vial. Do not submerge the vial. Remove the vial when only a small frozen cell pellet remains. Do not vortex cells.  
NOTE: Alternatively, use ThawSTAR® CFT2 Automated Thawing System (Catalog #100-0650) to ensure sample sterility and consistent thawing performance.
5. Wipe the outside of the vial with 70% ethanol or isopropanol.
6. Dilute cells at least 1 in 10 with warmed 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.
11. Cells are now ready for use in downstream applications.

CRYOSTOR PRODUCTS MEET USP <71> STERILITY AND USP <85> ENDOTOXIN TESTING STANDARDS, AND ARE MANUFACTURED UNDER CGMP.

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