

# CRYOPRESERVATION & STORAGE MEDIA

## cGMP-Manufactured Freezing and Biopreservation Media

Storage and cryopreservation of cells and tissues are important parts of the workflow for biological research. STEMCELL Technologies' cGMP-manufactured, protein-free, and serum-free biopreservation products are made with USP-grade components and are designed to maintain high viability and maximize cell recovery after long-term cryopreservation or short-term hypothermic storage.



### CryoStor® Freezing Media

- **Cell Types:** T cells, dendritic cells (DCs), peripheral blood mononuclear cells (PBMCs), embryonic stem (ES) and induced pluripotent stem (iPS) cells, hematopoietic stem and progenitor cells (HSPCs), mesenchymal stem and progenitor cells (MSCs), Chinese Hamster Ovary (CHO) cells, myeloma cell lines, hybridomas, peripheral blood, cord blood, mouse organoids (intestinal, hepatic, and pancreatic), human and hPSC-derived intestinal organoids, other tissue and cell types
- Designed to mitigate temperature-induced molecular stress responses during freezing and thawing at cryogenic temperatures
- Animal component-free (ACF) and pre-formulated with 2%, 5%, or 10% USP-grade DMSO for cell types with varying sensitivities
- US FDA Drug Master File



### BloodStor® Freezing Media

- **Cell Types:** HSPCs, cord blood, and tissue
- BloodStor® 55-5 is formulated with 55% (w/v) DMSO USP, 5% (w/v) Dextran-40 USP, and water for injection (WFI) quality water for the processing and storage of red blood cell-depleted cord blood units
- BloodStor® 100 contains 100% DMSO USP for custom solutions requiring sterile-filtered DMSO

## Product Information

PRODUCT	SIZE	CATALOG #
CryoStor® CS10	100 mL	07930
	100 mL Bag	07955
	1000 mL Bag	07940
	5 x 16 mL Vials	07931
	5 x 10 mL Vials	07959
	16 x 10 mL Vials	07952
CryoStor® CS5	100 mL	07933
	100 mL Bag	07953
	5 x 10 mL Vials	07949
CryoStor® CS2	100 mL	07932
HypoThermosol® FRS	100 mL	07935
	500 mL	07936
	500 mL Bag	07945
	16 x 10 mL Vials	07934
BloodStor® 55-5	1000 mL Bag	07950
	16 x 7.2 mL Vials	07937
BloodStor® 100	50 mL	07951
	100 mL	07939
	5 x 100 mL	07938



### HypoThermosol® FRS Preservation Media

- **Cell Types:** T cells, DCs, ES and iPS cells, HSPCs, MSCs, whole blood, and others
- ACF formulation that provides stability for short-term storage and/or shipment of cells at low temperatures between 2 - 8°C
- US FDA Drug Master File

## Serum-Free, Cell-Specific Cryopreservation Media

STEMCELL Technologies' cryopreservation products include cell-specific freezing media optimized for use with our popular culture media. These cryopreservation media are formulated to maximize cell recovery and performance of cells when paired with their corresponding culture media.



### mFreSR™ and FreSR™-S Cryopreservation Media

- **Cell Types:** Human ES and iPS cells
- Use with cells cultured in TeSR™ media
- High post-thaw viability and recovery of cells
- FreSR™-S is ACF and optimized for cryopreservation of cells in single-cell suspensions



### STEMdiff™ Neural Progenitor Freezing Medium

- **Cell Types:** Neural progenitor cells (NPCs) derived from ES/iPS cells
- Use to freeze NPCs generated with STEMdiff™ SMADi Neural Induction Kit at any time post single-cell neural induction
- Thawed NPCs have reproducibly high recovery rates, display healthy morphology, and retain the potential to expand and differentiate into neurons, astrocytes, and other neural cell types



### MesenCult™-ACF Freezing Medium

- **Cell Types:** MSCs
- Use with human MSCs cultured in MesenCult™-ACF Plus or MesenCult™ media
- Cryopreserve MSCs generated with the STEMdiff™ Mesenchymal Progenitor Kit
- Thawed MSCs have reproducibly high recovery rates and maintain MSC multipotency and expansion capacities

## Product Information

PRODUCT	SIZE	CATALOG #
mFreSR™	10 x 5 mL Tubes	05854
	50 mL	05855
FreSR™-S	50 mL	05859
STEMdiff™ Neural Progenitor Freezing Medium	100 mL	05838
MesenCult™-ACF Freezing Medium	50 mL	05490

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