

Cryopreservation Media

For Immunology and Stem Cell Research

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 designed to maintain high viability and maximize cell recovery after long-term cryopreservation or short-term hypothermic storage.

cGMP-Manufactured Freezing and Preservation Media Formulated with USP-Grade Components



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 and tissue
- 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



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



HypoThermosol® FRS Preservation Media

- **Cell Types:** T cells, DCs, ES and iPS cells, HSPCs, MSCs, whole blood and others
- Provides stability for short-term storage and/or shipment of cells at low temperatures between 2 – 8°C

Product Information

| PRODUCT | SIZE | CATALOG # |
|--------------------|--------------------|-----------|
| CryoStor® CS10 | 100 mL | 07930 |
| | 100 mL Immunology | 07956 |
| | 1000 mL Bag | 07940 |
| | 5 x 16 mL Vials | 07931 |
| | 6 x 10 mL Syringes | 07942 |
| CryoStor® CS5 | 100 mL | 07933 |
| 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 |
| | 6 x 8 mL Syringes | 07943 |
| BloodStor® 100 | 50 mL | 07951 |
| | 100 mL | 07939 |
| | 5 x 100 mL | 07938 |

Cryopreservation Media

For Stem Cell Research

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.

Defined and Serum-Free Cryopreservation Media Optimized for Cells Cultured in STEMCELL Media



mFreSR™ and FreSR™-S Cryopreservation Media

- **Cell Types:** Human ES and iPS cells
- Use with cells cultured in TeSR™ media
- Higher thawing efficiencies than with conventional methods using serum¹⁻⁴
- FreSR™-S is ACF and optimized for cryopreservation of cells in single-cell suspension

1. Fujioka T et al. (2004) Int J Dev Biol 48(10): 1149-54.
 2. Ha SY et al. (2005) Hum Reprod 20(7): 1779-85.
 3. Ji L et al. (2004) Biotechnol Bioeng 88(3): 299-312.
 4. Ware CB et al. (2005) Biotechniques 38(6): 879-80, 882-3.



STEMdiff™ Neural Progenitor Freezing Medium

- **Cell Types:** Neural progenitor cells (NPCs) derived from ES/iPS cells
- Use to freeze NPCs generated with STEMdiff™ Neural Induction Medium 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™-XF or MesenCult™-ACF 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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