



CS-SC-N1 (DMSO-free, 100mL/bottle)

FDA Drug Master File No. 039215

For the cryopreservation of mesenchymal stem cells (MSCs) derived from various sources, such as umbilical cord and bone marrow

Product Specifications

- Ready-to-use
- Ice-controlling Technology
- cGMP-manufactured with pharmacopeia ingredients
- Chemically Defined
- Animal component-free
- Freeze directly in -80°C freezer when working with small volumes
- Endotoxin < 0.125 EU/mL



Shelf Life: 18 months

Storage Temperature: 2°C - 8°C

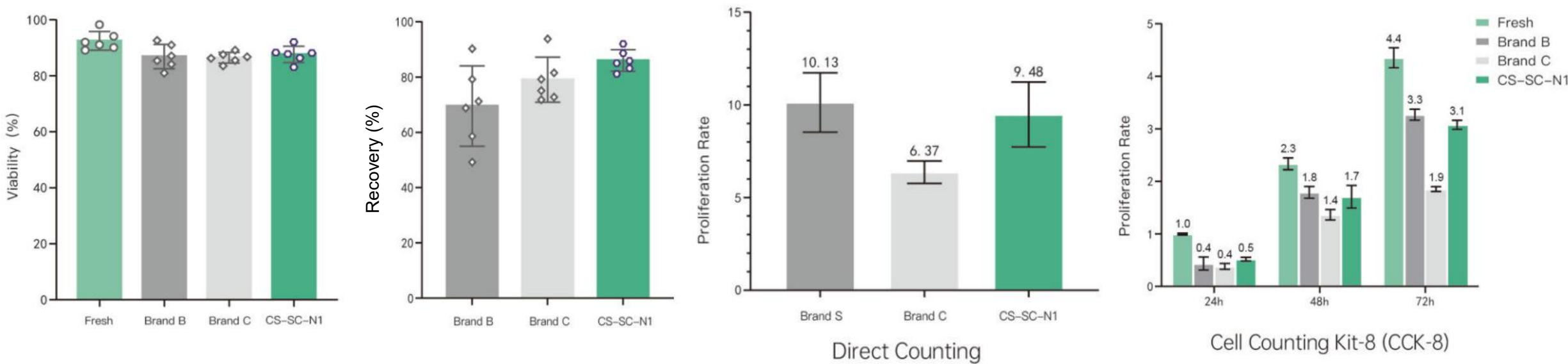


Stem Cell Cryopreservation Medium (DMSO-Free)

Cat. CS-SC-N1

Cell Type Umbilical cord-derived MSCs (U-MSCs)

Comparison of post-thaw viability, recovery, and proliferation of U-MSCs



Note:

- Freezing density: 5×10^6 cells/mL
- Brand B refers to CryoStor® CS10 (BioLife Solutions); Brand C refers to STEM-CELLBANKER® DMSO Free

Key Takeaway: CS-SC-N1 preserved key post-thaw performance attributes of U-MSCs, including viability, recovery, and proliferative capacity.

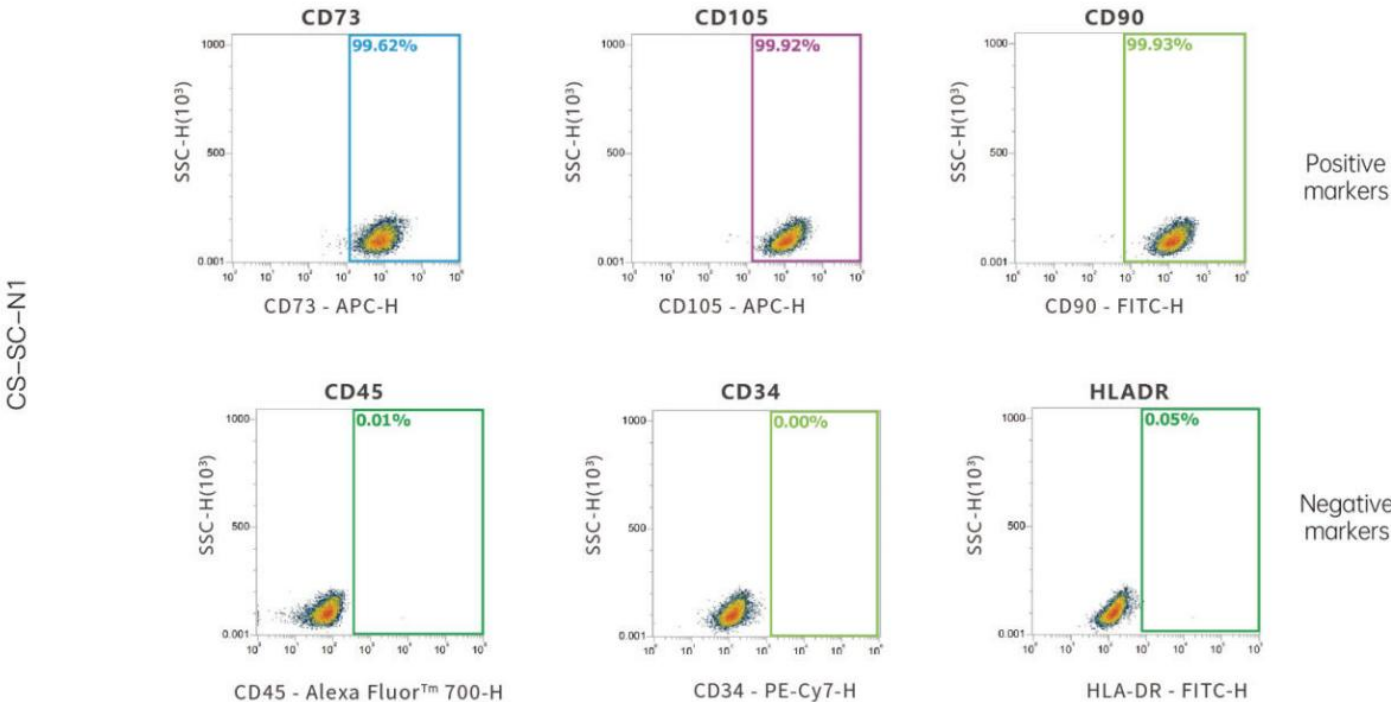


Stem Cell Cryopreservation Medium (DMSO-Free)

Cat. CS-SC-N1

Cell Type Umbilical cord-derived MSCs (U-MSCs)

Surface Marker Analysis



Key Takeaway: After cryopreservation, U-MSCs maintained the expected MSC immunophenotype, with positive expression of CD73, CD90, and CD105, and negative expression of CD34, CD45, and HLA-DR.

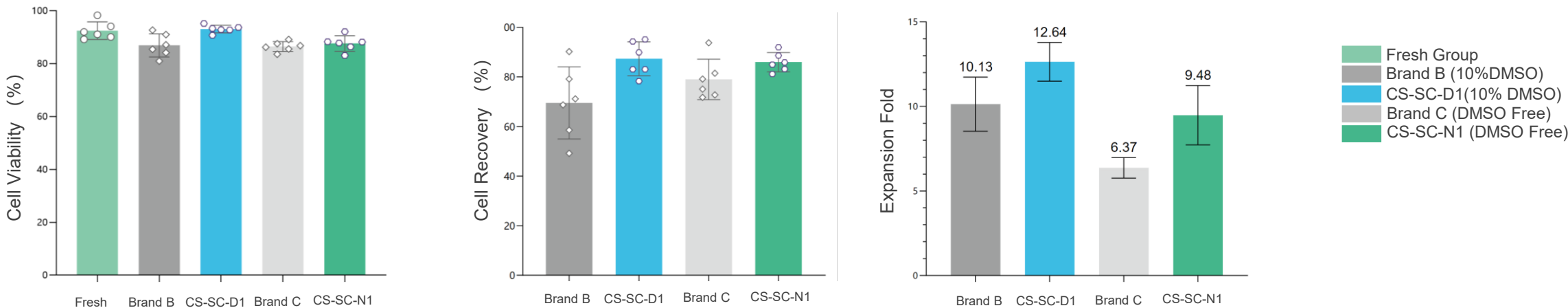


Stem Cell Cryopreservation Media

Cat. CS-SC-D1 & CS-SC-N1

Cell Type Umbilical cord-derived MSCs (U-MSCs)

Comparison of Cell Viability, Cell Recovery, and Expansion Fold of U-MSCs



Note:

- 1. Freezing density: 5×10^6 cells/mL
- 2. Brand B refers to CryoStor® CS10 (BioLife Solutions); Brand C refers to STEM-CELLBANKER® DMSO Free

Key Takeaway: CS-SC-D1 demonstrated high post-thaw viability and strong recovery, with the highest expansion fold among the tested cryopreservation media.

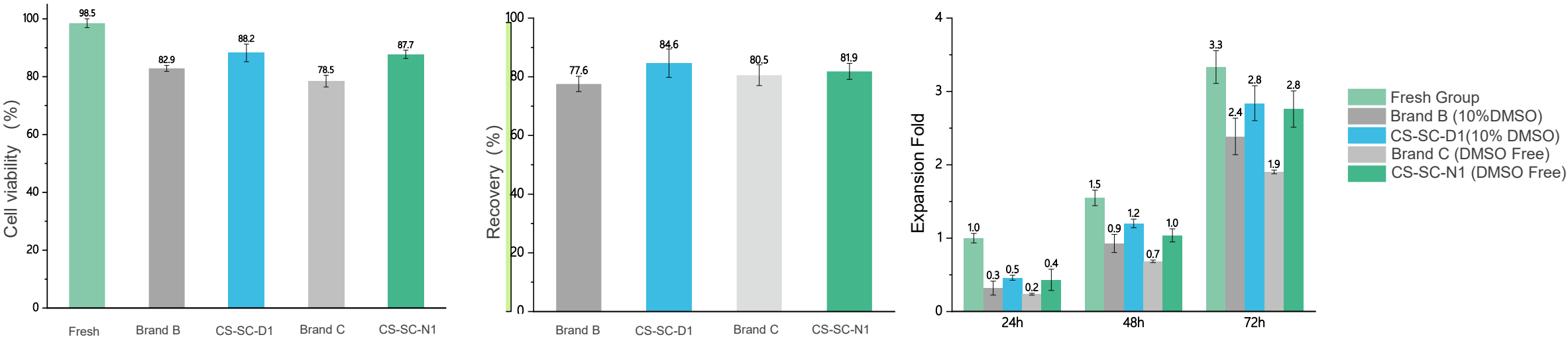


Stem Cell Cryopreservation Media

Cat. CS-SC-D1 & CS-SC-N1

Cell Type Bone marrow-derived MSCs (BM-MSCs)

Comparison of Post-thaw Viability, Recovery, and Expansion Fold of BM-MSCs



Note:

- 1. Freezing density: 5×10^6 cells/mL
- 2. Brand B refers to CryoStor® CS10 (BioLife Solutions); Brand C refers to STEM-CELLBANKER® DMSO Free

Key Takeaway: CS-SC-D1 maintained high post-thaw viability and recovery, while demonstrating stronger expansion performance than the compared products in BM-MSC cryopreservation.