



CS-SC-D1 (10% DMSO, 100mL/bottle)

FDA Drug Master File No. 039214 / NMPA Pharmaceutical Excipients F20250000240

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



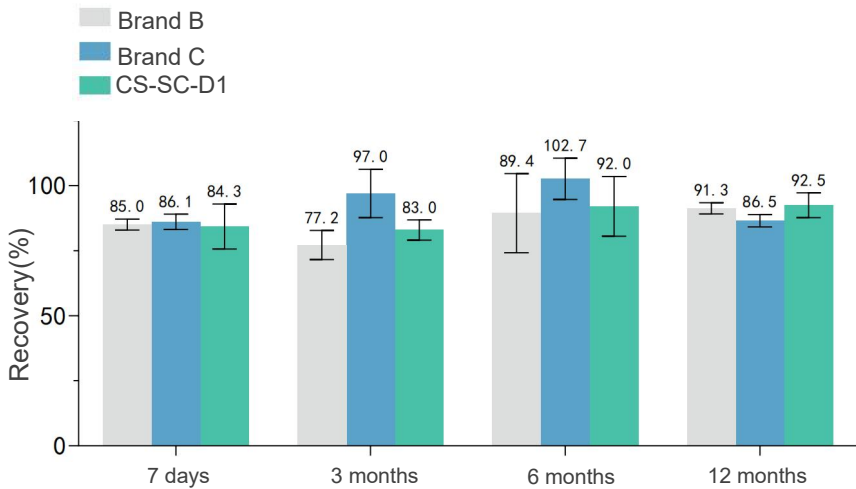
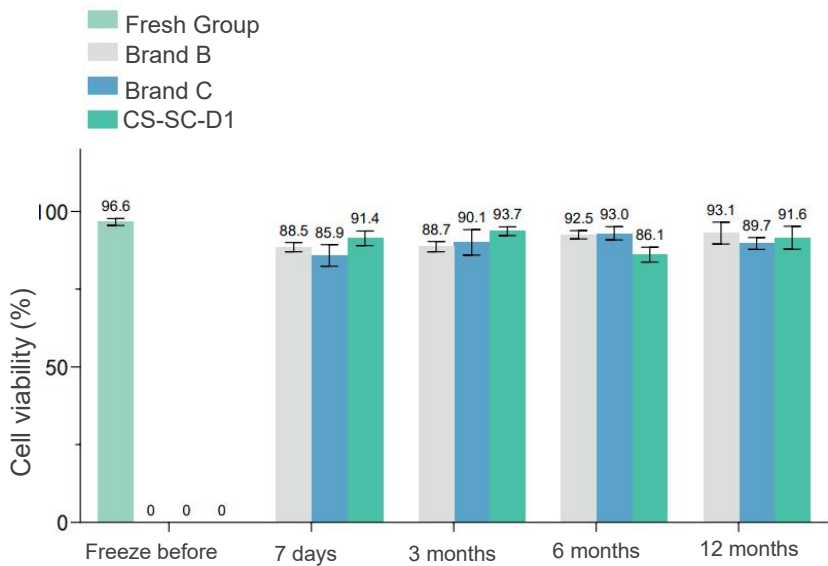
Shelf Life: 12 months

Storage Temperature: 2°C - 8°C



Product Name: Stem Cell Cryopreservation Medium
Cat.: CS-SC-D1
Cell Type: U-MSCs

Post-thaw viability and recovery of MSCs at different cryopreservation durations



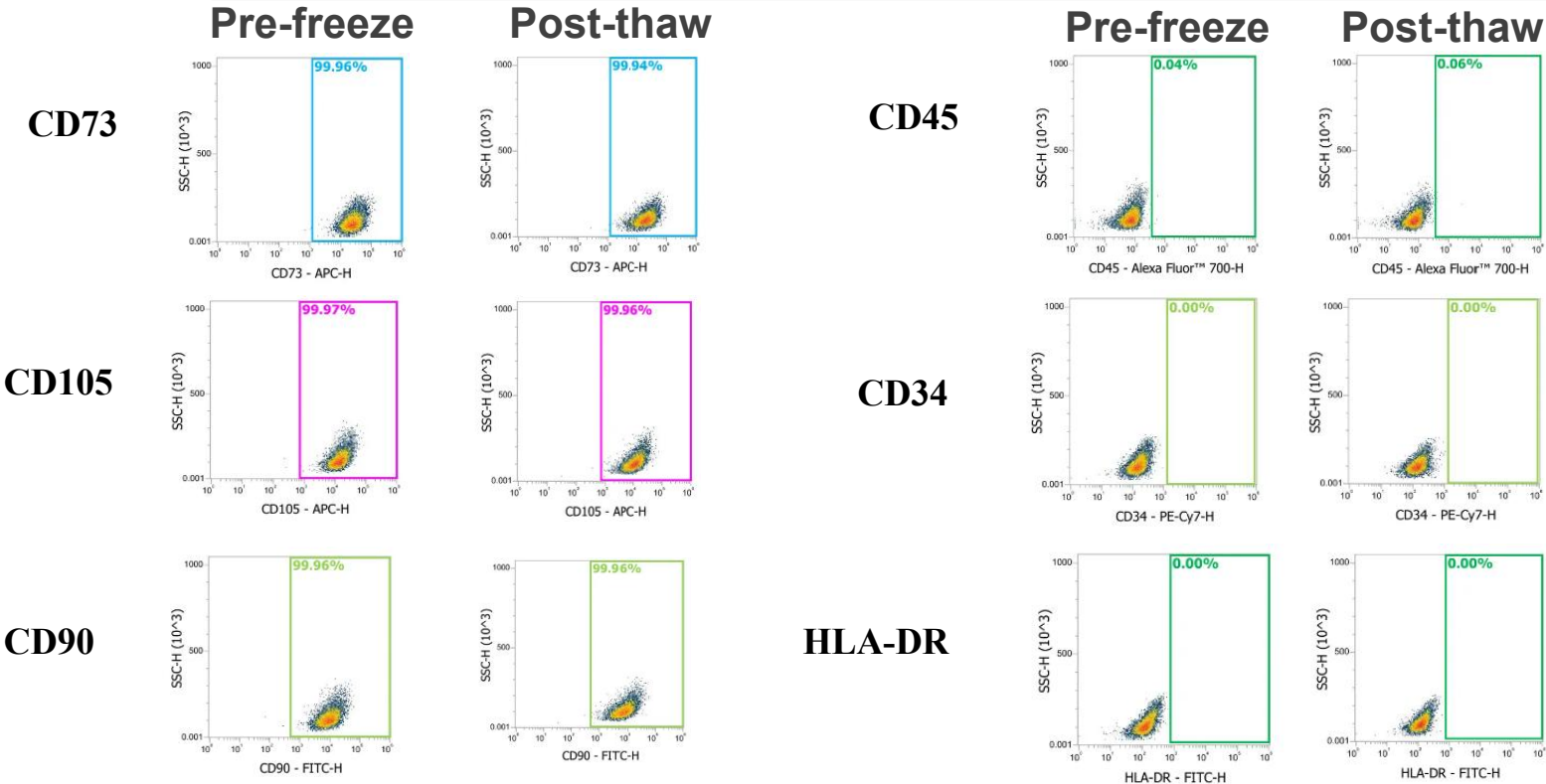
Note: Cryopreservation density: 1×10^6 cells/mL

Cryopreserved MSCs maintain high viability and recovery at tested duration.



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Post-thaw MSC phenotype

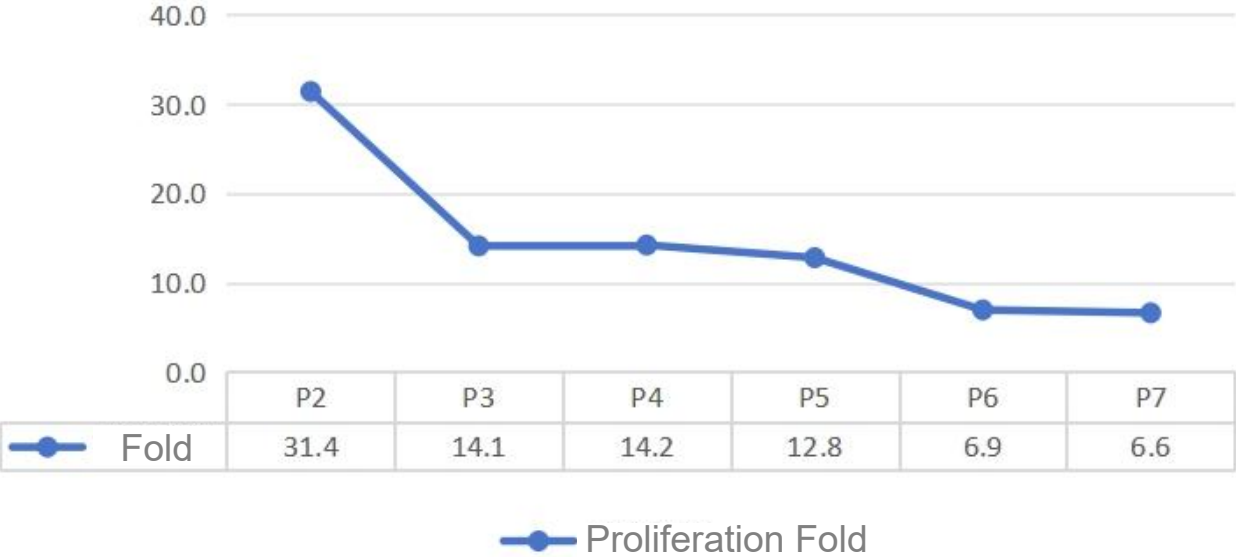


After cryopreservation, stem cells show stable expression of positive markers and no expression of negative markers.



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P1 U-MSCs were cryopreserved and cultured to P7 after thawing



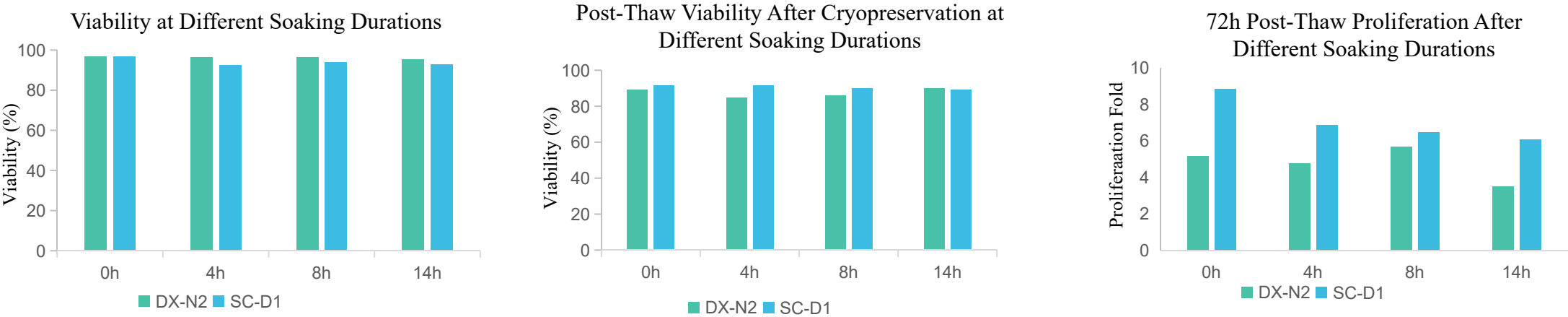
Note: Freezing density: 5×10⁶ cells/mL; Cryopreservation duration: 30 days; Seeding density: 8000 cells/cm²

Cryopreserved MSCs maintain high proliferative capacity.



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Stability test after soaking in cryo-medium at 4°C for different period



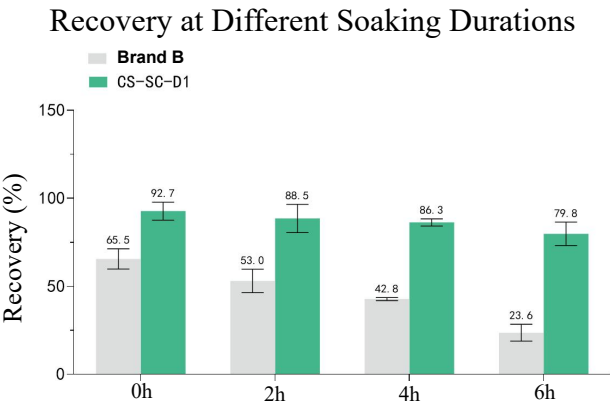
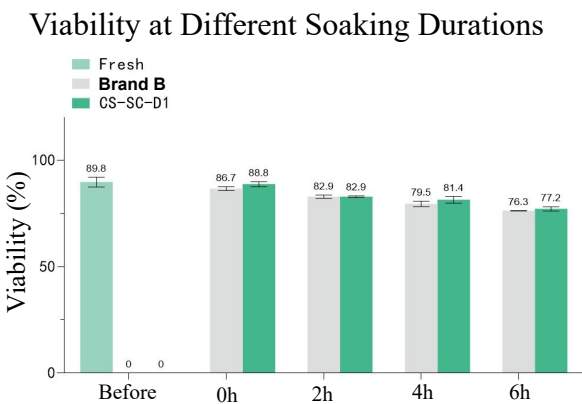
Note: Freezing density: 1×10^6 cells/mL, SC-D1 was diluted 1:1 with normal saline supplemented with human albumin.

- Immediate cell viability stayed above 90% across all time points with no significant decline;
- Post-thaw viability remained ~90%, showing no statistical difference from the 0h immediate cryopreservation group;
- 72h post-thaw proliferation fold maintained 3.5–7, with intact cell proliferation potential.

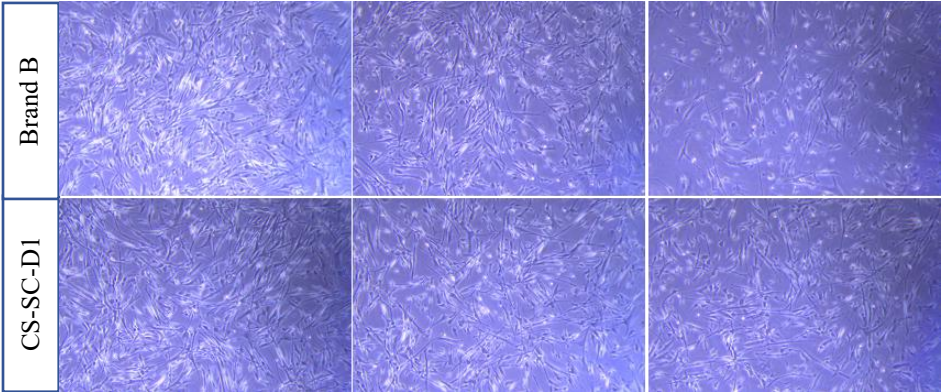


Product Name: Stem Cell Cryopreservation Medium
Cat.: CS-SC-D1
Cell Type: U-MSCs

Stability test after soaking in cryo-medium at RT for different period



Comparison of Morphology After Cryopreservation



Note: Freezing density: 2×10^6 cells/mL

CS-SC-D1 achieved 86.3% viable cell recovery at 4h and 79.8% at 6h, while competitors plummeted to 23.6% at 6h. Cells retained normal spindle morphology without shrinkage or fragmentation.

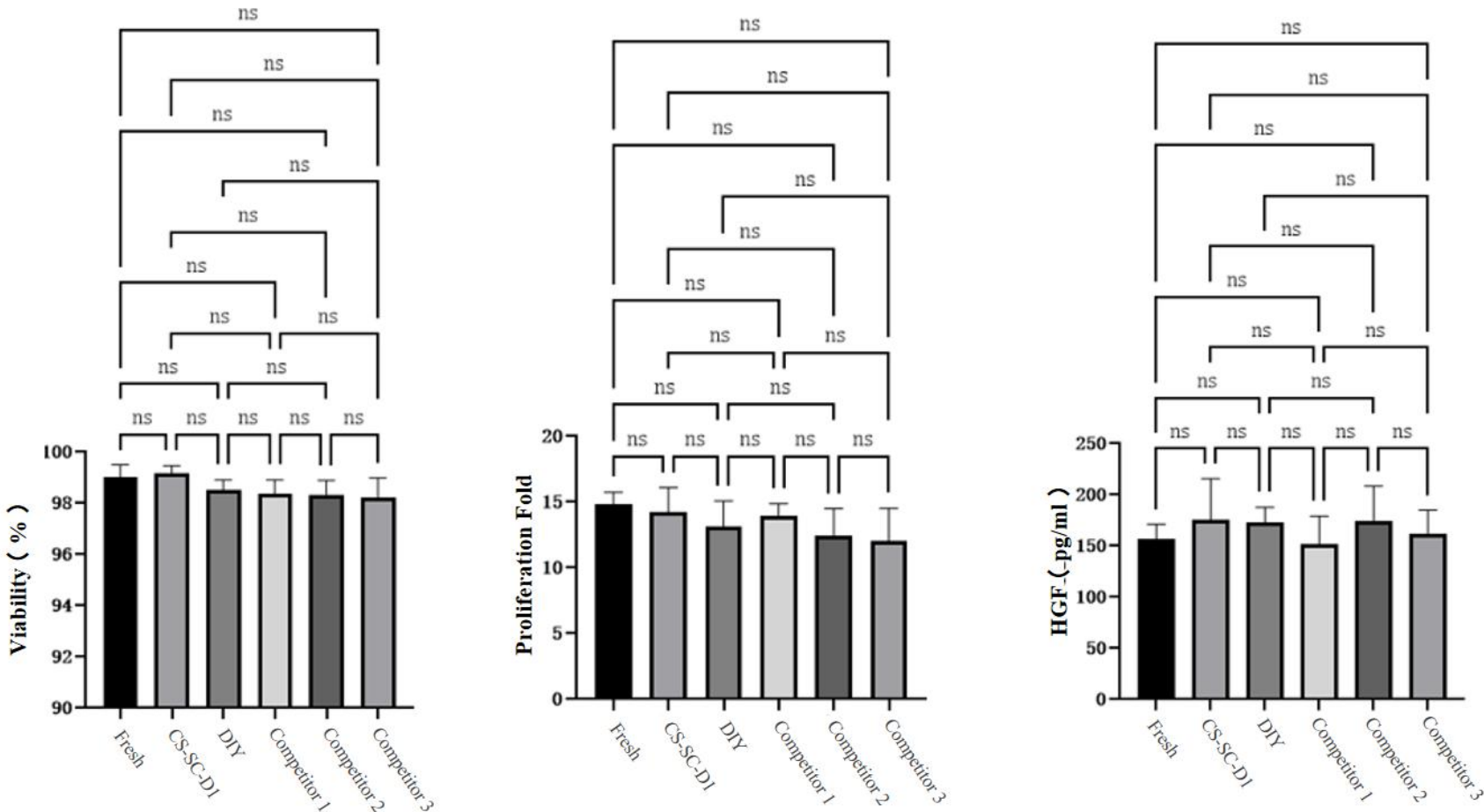


MSC Cryopreservation (Customer Data)



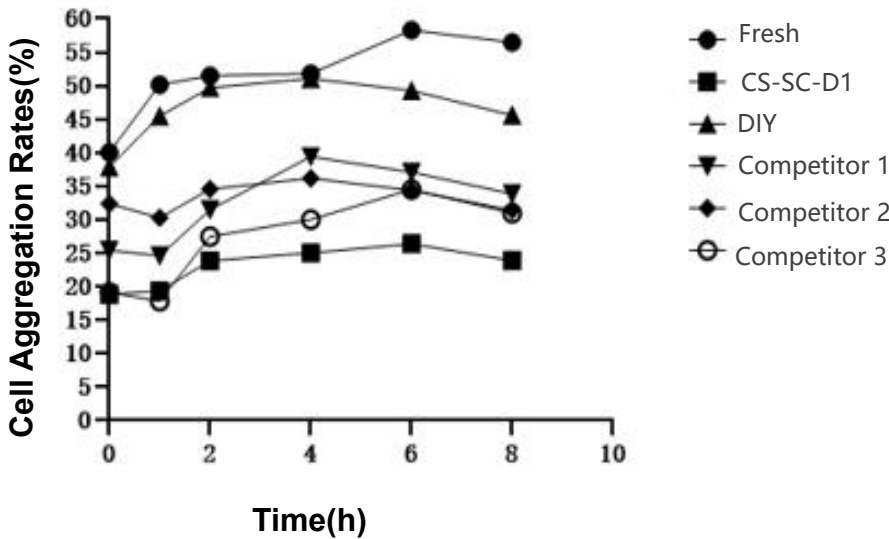
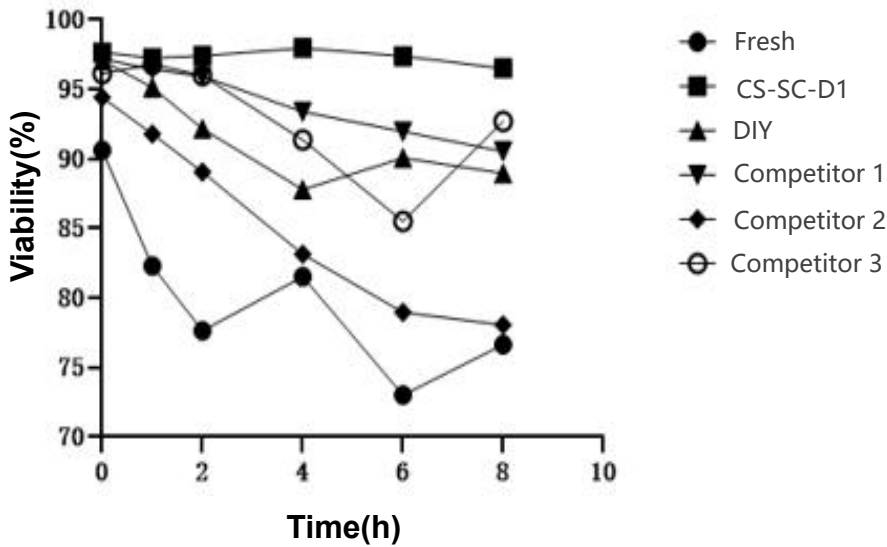
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Cat.: CS-SC-D1
Cell Type: U-MSCs

Comparison of Viability, Proliferation and HGF Cytokine Secretion after Freezing and Thawing



Product Name: Stem Cell Cryopreservation Medium
Cat.: CS-SC-D1
Cell Type: U-MSCs

Comparison of Stability of MSCs After Cryopreservation and Thawing



Freezing Density: 2×10^7 cells/mL