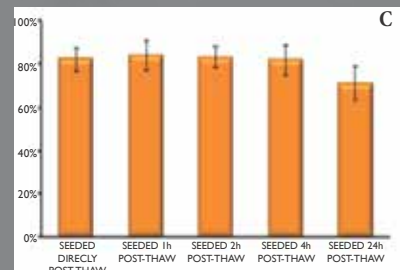
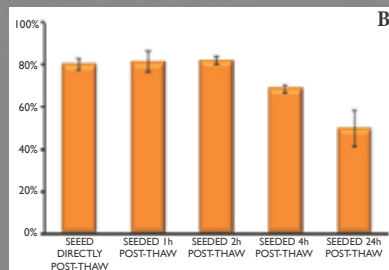
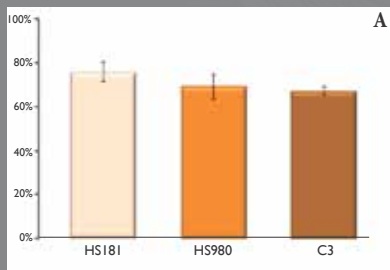


FREEZEstem™ IS A READY-TO-USE CRYOPRESERVATION MEDIUM WITH A USER-FRIENDLY, SLOW-FREEZE PROTOCOL SUITABLE FOR BULK FREEZING OF CELLS AT ULTRA-LOW TEMPERATURES. THE MEDIUM DOES NOT CONTAIN DMSO FOR IMPROVED CELL VIABILITY AND REDUCED RISK OF DIFFERENTIATION.

FREEZEstem™ IS PRODUCED IN FDA-INSPECTED FACILITIES ACCORDING TO cGMP AND ISO13485.

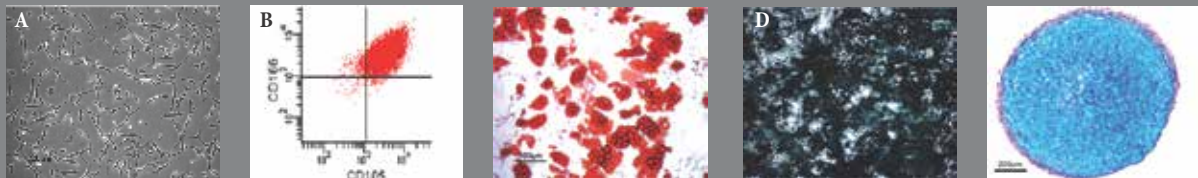
FREEZEstem™ SUPPORTS HIGH VIABILITY OF HUMAN EMBRYONIC STEM CELLS (hESC) INDUCED PLURIPOTENT STEM CELLS (iPSC), MESENCHYMAL STEM CELLS (MSC), AND FIBROBLASTS

Post-thaw cell viability of hES cell lines HS181 and HS980 and iPS cell line C3 (A), human bone marrow MSC (B) and human foreskin fibroblasts (C) is >70% when cryopreserved in FREEZEstem™. Due to the low cytotoxic properties of FREEZEstem™, cells can remain in the cryopreservation medium post-thaw for up to 24 hours with >50% maintained cell viability (B and C).



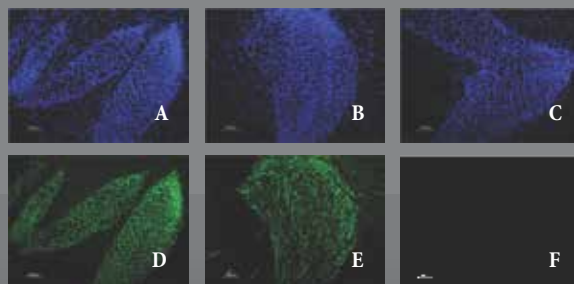
FREEZEstem™ SUPPORTS MAINTENANCE OF MESENCHYMAL STEM CELL MORPHOLOGY, EXPRESSION OF SURFACE MARKERS AND DIFFERENTIATION CAPACITY

Human mesenchymal stem cells frozen in FREEZEstem™ retain their characteristic morphology (A), expression of surface markers CD166 and CD105 (B), and have capacity to differentiate into the adipogenic (C), osteogenic (D), and chondrogenic (E) lineages.



FREEZEstem™ CRYOPRESERVED hES CELLS RETAIN STEM CELL MARKER EXPRESSION POST-THAW

Human stem cells (SA161) frozen in FREEZEstem™ retain their characteristic morphology (A-C, DAPI staining), express stem cells markers OCT-4 (D) and TRA-1-60 (E), but lack differentiation marker SSEA-1 (F).



FREEZEstem™ KEY ADVANTAGES

Defined, xeno- and serum-free

DMSO-free

High post-thaw viability

Produced according to cGMP and ISO13485

Optimized for single-cell cryopreservation

Maintained stem cell marker expression, morphology and differentiation capacity

