

Cell type: Episomal Human iPSC

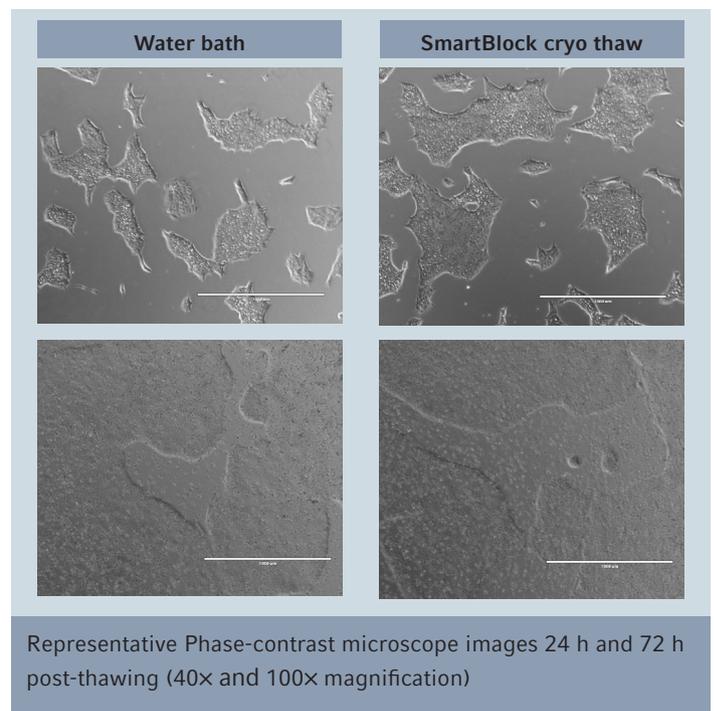
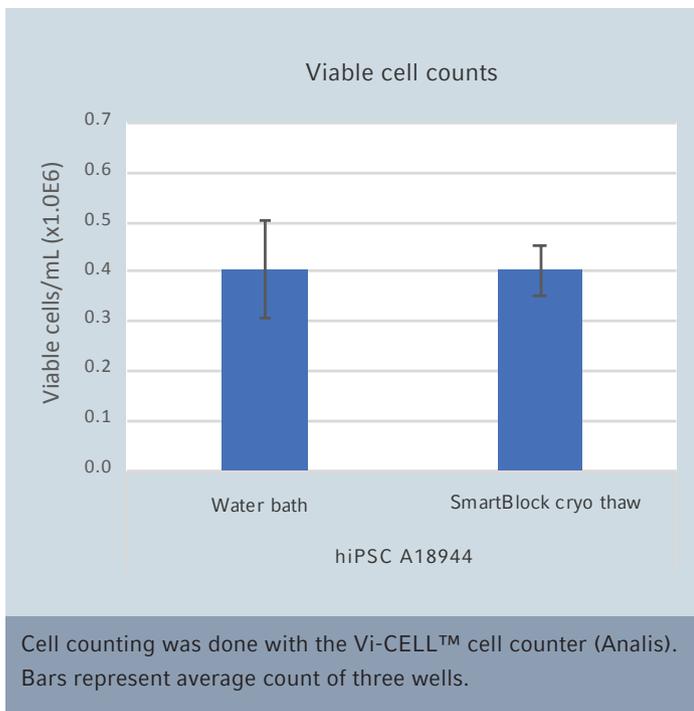
(Thermo Fisher Scientific, A18944)

Performance of the SmartBlock™ cryo thaw for cell thawing

Freezing medium: mFreSR™ cryopreservation solution (Stem Cell Technologies, 05854)

Procedure of freezing: Cells were frozen when reaching a confluency of 60-70 % in 1 mL of cold (2-8 °C) mFreSR medium in Eppendorf CryoStorage Vials 2.0 mL (0030 079.485). Cells were frozen using a slow rate-controlled cooling freezing container (-1°C/minute) (Sigma Aldrich, CLS432000-1EA) at -80 °C for the first 24 hours and later transfer to a liquid nitrogen container in the vapor phase (-135 °C) for long term storage.

Procedure of thawing: The vials were thawed using the program 'Thawing cells' (3 minutes, 500 rpm). Parallel thawing with a water bath was done. After thawing, cells were suspended in 10 mL Essential 8™ Flex Medium (Thermo Fisher Scientific, A2858501) and centrifuged at 200x g for 5 min. The cell pellet was resuspended in medium supplemented with RevitaCell™ (Thermo Fisher Scientific, A2644501) and cultivated on Matrigel® (Corning®, 354277) in a 6-well cell culture plate in 2 ml supplemented medium. Cell aggregates were incubated at 37 °C and 5 % CO₂. Medium refreshment was performed each 24 or 48 hours. About 3-4 days were required between two successive passages.



The program 'Thawing cells' of the Eppendorf SmartBlock cryo thaw allows optimal thawing and homogeneous growth of Episomal Human iPSC cells compared to the existing method (here: water bath).

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