

Cell type: HEK293

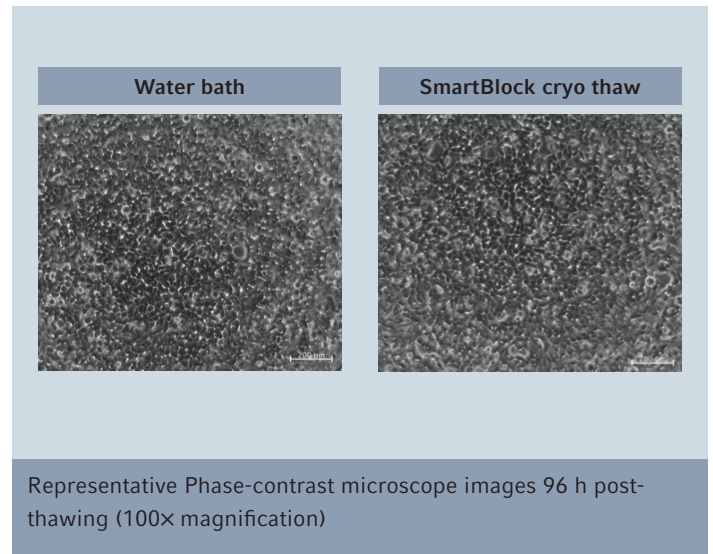
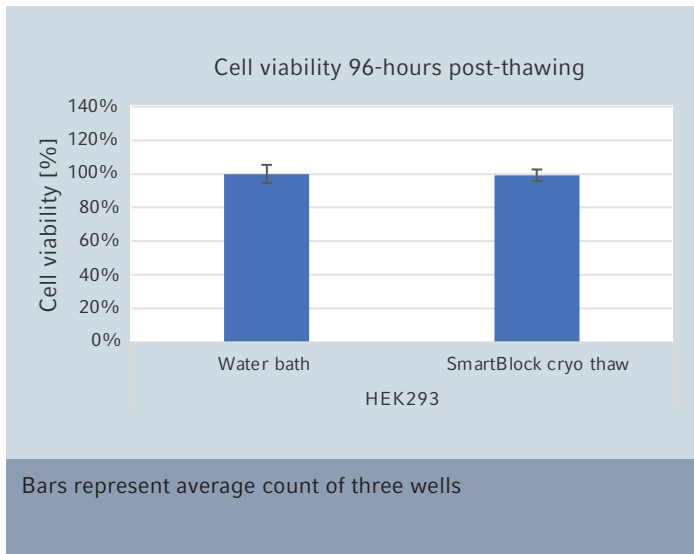
(DSMZ no. ACC 305)

Performance of the SmartBlock™ cryo thaw for cell thawing

Freezing medium: 70 % Minimum Essential Medium (MEM) (Invitrogen # 31095029), 20 % FBS Superior, (Biochrom AG #S 0615), 10% DMSO (Roth #4720)

Procedure of freezing: Cells were aliquoted in Eppendorf CryoStorage Vials 2.0 mL (0030 079.485) at a concentration of 2×10^6 /ml in 1.0 mL of freezing medium. Vials were slowly cooled down to $-80\text{ }^\circ\text{C}$ (cooling rate of 1 degree per minute) using a cryo freezing container (CoolCell LX, BioCision). After 24 hours the vials were transferred in liquid nitrogen (vapor phase).

Procedure of thawing: The vials were thawed using the program 'Thawing cells' (4 minutes, 500 rpm). Parallel thawing with a water bath was done. After thawing, vials were diluted with 10 mL medium, centrifugated and resuspended in 2 mL fresh medium and counted. Cells were seeded in 96-well cell culture plates and incubated at $37\text{ }^\circ\text{C}$ with 5 % CO_2 . After 96 hours, the cells morphology was analyzed by phase-contrast microscope and a CellTiter-Blue® Viability Assay (Promega, G8081) was done.



The program 'Thawing cells' of the Eppendorf SmartBlock cryo thaw allows optimal thawing and homogeneous growth of HEK293 cells compared to the existing method (here: water bath).

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