

Cell type: CHO-K1

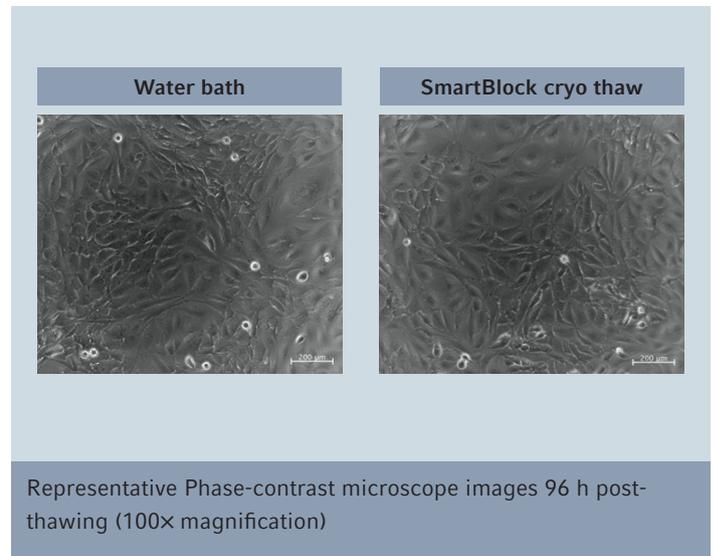
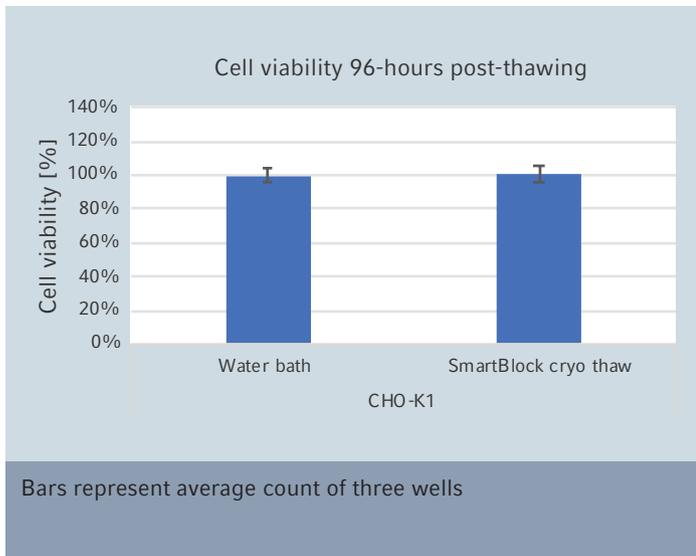
(DSMZ no. ACC 110)

Performance of the SmartBlock™ cryo thaw for cell thawing

Freezing medium: 70 % F-12 Nutrient Mixture (Ham) (Invitrogen # 21765-029), 20 % FBS Superior, (Biochrom AG #S0615), 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 CHO-K1 cells compared to the existing method (here: water bath).

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