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## Protocol for cryopreservation of HUVEC/TERT2 cells

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<ul> <li>Reagents</li> <li>Trypsin-EDTA (Gibco, Cat# 25300054)</li> <li>Freezing medium which contains: <ul> <li>EndoUp2 ready to use medium (Evercyte, Cat# MHT-006-2)</li> <li>10 % DMSO</li> </ul> </li> <li>Storage temperature: liquid nitrogen</li> </ul> <li>Gelatin solution (Sigma-Aldrich, Cat# G1393)</li> <li>EndoUp2 ready-to-use medium (Evercyte, Cat# MHT-006-2) which contains: <ul> <li>EBM<sup>TM</sup> Basal Medium 500 mL (Lonza, Cat# CC-3121) with selected supplements from EGM<sup>TM</sup> SingleQuots<sup>TM</sup> Kit (Lonza, Cat# CC-4133) – namely BBE (bovine brain extract), HEGF, hydrocortisone solution and ascorbic acid solution</li> <li>10 % Fetal Bovine Serum (FBS) (Sigma-Aldrich, Cat# F7524)</li> <li>20 µg/ml G418 (InvivoGen, Cat# ant-gn5)</li> </ul> </li>			
		Practical application	
		Freezing of cells: Detach cells from culture vessel is protocol for in vitro propagation of growth medium and centrifuge at resuspend in the remaining drop density of about $5 \times 10^5$ cells/ml this cell suspension to each pre-co 80°C. After 24 hours transfer the	by using Trypsin-EDTA as described in Evercyte's of HUVEC/TERT2 cells, resuspend detached cells in t 170 g for 5 min. Then, discard the supernatant, et and add freezing medium (4°C) to reach a cell (for thawing in a 25 cm <sup>2</sup> culture flask). Add 1 ml of cooled cryovial and immediately transfer the cells to - a vials to liquid nitrogen.
Thawing of cells: Pre-coat a 25 cm <sup>2</sup> culture flask w propagation of HUVEC/TERT2 cel flask and place the culture flask i medium to reach its normal pH. <sup>-</sup> and pre-warm in hand until one I transfer the content of the vial to medium pre-cooled to 4°C and co supernatant and resuspend cells medium to the cells, transfer the in a suitable incubator. Perform a medium change 24 ho	with gelatine (see Evercyte's protocol for in vitro ls). Add 6 ml of growth medium to a 25 cm <sup>2</sup> culture n the incubator for at least 30 min to allow the Take a vial of frozen cells, rinse outside with ethanol ast piece of frozen cells is seen. Then, immediately o a 15 ml centrifugation tube pre-filled with 9 ml of entrifuge for 5 min at 170 g. Then, discard in the remaining droplet. Add 1 ml of pre-warmed m to the prepared culture flask and incubate at 37°C		



this point, they should be passaged (see Evercyte's protocol for in vitro propagation of HUVEC/TERT2 cells).

**Related products** 

• EndoUp2 ready-to-use medium, 500 ml (Evercyte, Cat# MHT-006-2)