

Protocol for cryopreservation of EN-MSc/TERT352-B

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Evercyte Ord. No.:	CHT-060-0352-B
Designation:	EN-MSc/TERT352-B, human endometrium derived mesenchymal stromal cells
Freezing medium:	CryoStor® Cell Cryopreservation Medium CS10 (Sigma-Aldrich, Cat# C2874, ready to use)
Material:	CellBIND™ tissue culture ware (Corning)
Additional reagents:	PBS (Gibco, Cat# 14190-144, ready-to-use, stored at 4°C) CTS™ TrypLE™ Select Enzyme (Gibco, Cat# A1285901, ready-to-use, stored at 4°C)
Freezing cells:	<ul style="list-style-type: none">- detach the cells from the culture vessel by using CTS™ TrypLE™ Select Enzyme solution as described in protocol <i>Passaging of EN-MSc/TERT352-B cells</i>- resuspend the detached cells in growth medium and centrifuge at 200 g for 5 min- discard the supernatant, resuspend the resulting cell pellet in the remaining droplet- add freezing medium (tempered to 4°C) to reach a cell density of about 5×10^5 cells/ml (for thawing in a 25 cm² culture flask)- add 1ml of this cell suspension to each pre-cooled cryovial and immediately transfer the cells to -80°C- after 24 hours transfer the vials the liquid nitrogen tank
Thawing of cells:	<p>When you start cultivating the cells, please transfer the content of the original Evercyte vial containing EN-MSc/TERT352-B into a T25 CellBIND™ flask as described in the following:</p> <ul style="list-style-type: none">- add 6 ml of growth medium to the 25 cm² CellBIND™ culture flask and place it in the incubator for at least 30 min to allow the medium to reach 37°C and its normal pH- take a vial of frozen cells, rinse it outside with ethanol and pre-warm in the hand until one last piece of frozen cell is seen- then, immediately transfer the content of the vials to a 15 ml centrifugation tube pre-filled with 9 ml of medium pre-cooled to 4°C and centrifuge for 5 min at 180 g- discard the supernatant and resuspend the cell pellet in the remaining droplet- add 1 ml of pre-warmed medium to the cells, transfer the cells to the prepared culture flask and incubate at 37°C in a suitable incubator- perform a medium change 24 hours after thawing; if the cells are already 80% confluent at this point, they must be passaged as described in protocol <i>Passaging of EN-MSc/TERT352-B cells</i>