

Protocol for passaging of ASC/TERT1

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Evercyte Ord. No.: CHT-001-0005 Designation: ASC/TERT1, human mesenchymal stromal cells EGM[™]-2 Endothelial Cell Growth Medium-2 (Lonza, Cat# CC-3162) supplemented with Growth medium: FBS and G418: Final components: EBM[™]-2 basal medium (Lonza, Cat# CC-3156) Components of EGM[™]-2 SingleQuots[™] (Lonza, Cat# CC-4176: Hydrocortisone, hFGF, VEGF, R3-IGF-1, Ascorbic acid, hEGF, Heparin) 2 % FBS (PAN Biotech, Cat# P30-3031) 200 µg/ml G418 (InvivoGen, Cat# ant-gn5, 100 mg/ml, ready-to-use) take one bottle of EBM-2 basal medium (500 ml) add 10 ml of FBS (ready-to-use) add 200 µl of Hydrocortisone (EGM[™]-2 SingleQuots[™]) add 2 ml of hFGF (EGM[™]-2 SingleQuots[™]) add 500 µl VEGF (EGM[™]-2 SingleQuots[™]) add 500 µl of R3-IGF-1 (EGM[™]-2 SingleQuots[™]) add 500 µl of hEGF (EGM[™]-2 SingleQuots[™]) add 500 µl of Heparin (EGM[™]-2 SingleQuots[™]) add 500 µl of Ascorbic Acid (EGM[™]-2 SingleQuots[™]) add 1 ml of G418 stock solution mix properly store at 4°C for a maximum of 4 weeks temper the medium to room temperature (not 37°C) before use Additional reagents: 0.05% Trypsin-EDTA (Gibco, Cat# 25300-054, ready-to-use, stored at 4°C) Defined Trypsin Inhibitor (Gibco, Cat# R007100, ready-to-use, stored at 4°C) PBS (Sigma-Aldrich, Cat# D8537, ready-to-use, stored at RT) Passaging of cells: remove and discard the culture medium wash the cells twice with PBS (each 160 µl/cm²), remove PBS completely add Trypsin-EDTA solution (20 μ l/cm²), make sure that all cells have been in contact with this solution incubate the culture flask at 37°C for approximately 2-3 min

- observe cell detachment under an inverted microscope

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| Related products: | WJ-MSC/TERT273, human mesenchymal stromal cells (Evercyte, Cat# CHT-021-0273) |
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| | - cultivate cells at 37° C in a humidified atmosphere with 5% CO ₂ |
| | 80 % confluence) |
| | - a split ratio of 1:3 to 1:4 twice a week is recommended (after having reached about |
| | with growth medium (final volume of 240 μl/cm²) |
| | - transfer appropriate aliquots of the cell suspension to culture vessels supplemented |
| | growth medium |
| | - discard the supernatant, resuspend the cell pellet in the remaining droplet and add |
| | - centrifuge at 170 g for 5 min |
| | pipetting |
| | - resuspend the cells in growth medium (about 160 $\mu l/cm^2$) and aspirate the cells by |
| | flask), add Defined Trypsin Inhibitor (20 μ l/cm ²) |
| | - as soon as all cells are detached (if necessary, agitate the cells by gently hitting the |