

Protocol for passaging of PODO/SVTERT152

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Evercyte Ord. No.:	CLHT-033-0152
Designation:	PODO/SVTERT152, human urine-derived podocytes
Medium:	The PodoUp3 medium for cultivation of PODO/SVTERT152 cells can either be ordered from Evercyte as ready-to-use medium (Cat# MHT-033-3) or as basal medium (Cat# MHT-033-3-B) plus supplements (Cat# MHT-033-3-S). The medium can also be prepared by mixing the following components:
	MCDB131 (Pan Biotech, Cat# P04-80057) 1,6 mM GlutaMAX-I (Gibco, Cat# 35050-038, ready-to-use) 9,6 μg/mL BBE (Lonza, Cat# CC-4098, ready-to-use) 8 ng/ml hEGF (Sigma-Aldrich, Cat# E9644) 20 ng/ml Hydrocortisone (Sigma-Aldrich, Cat# H0396) 20 % FBS (Sigma-Aldrich, Cat# F7524, ready-to-use) 100 μg/ml G418 (InvivoGen, Cat# ant-gn-5, ready-to-use)
	 take one bottle (500 ml) of MCDB131 add 5 ml GlutaMAX-I (200 mM stock, ready-to-use), mix properly discard 105 ml from MCDB131 / GlutaMAX-I mixture add 533.6 μl BBE (9 mg/ml stock, ready-to-use) add 200 μl hEGF stock (20 μg/ml, prepared in cell culture grade water) add 200 μl hydrocortisone stock (50 μg/ml, prepared in cell culture grade water) add 100 ml FBS (ready-to-use) add 500 μl G418 stock (100 mg/ml, ready-to-use) mix properly and store at 4°C for up to 1 month temper the medium to room temperature (not 37°C) before use
Coating solution:	50 μg/ml Collagen I solution The coating solution is prepared by mixing the following components: Collagen I (Sigma-Aldrich, Cat# C2249, 3 mg/ml) Phosphate buffered saline (PBS) (Sigma-Aldrich, Cat# D8537) — take 29.5 ml PBS and transfer to 50 mL centrifugation tube — add 0.5 ml of Collagen I solution (3 mg/ml stock solution) — mix carefully For coating of a T25 cell culture flask proceed as follows: — pipette 2 ml of diluted Collagen I solution (50 μg/ml) to a T25 roux flask

	 completely wet the surface of the culture flask (80 μl/cm²) incubate the culture flask for a minimum of 30 min at 37°C remove excess of Collagen I solution rinse culture flask once with PBS (160 μl/cm²) use culture flask immediately for seeding of cells, the surface must not dry out
Additional reagents:	Phosphate buffered saline (PBS) (Sigma-Aldrich, Cat# D8537) 0.05 % Trypsin-EDTA (Gibco, Cat#25300-054)
Passaging of cells:	 remove and discard the culture medium and wash the cells twice with PBS (160 μl/cm²), remove PBS completely then, add 0.05% Trypsin-EDTA solution (20 μl/cm²), make sure that all cells have been in contact with this solution and incubate the culture flask at 37°C for approximately 3-4 min observe cell detachment under an inverted microscope, as soon as all cells are detached (if necessary, agitate the cells by gently hitting the flask), add growth medium (about 160 μl/cm²) and aspirate cells by pipetting add appropriate aliquots of the cell suspension to Collagen I pre-coated culture vessels supplemented with growth medium (final volume of 240 μl/cm²) cells should be split every 3-4 days (after having reached not more that 80 % confluence) with a split ratio of 1:6 to 1:8 (population doubling time is 24 - 32 hours) never allow the culture to become confluent! cultivate cells at 37°C in a humidified atmosphere with 5 % CO₂
Related products:	PodoUp3 ready-to-use medium, 500 ml (Evercyte, Cat# MHT-033-3) PodoUp3 basal medium, 500 ml (Evercyte, Cat# MHT-033-3-B) PodoUp3 supplements (Evercyte, Cat# MHT-033-3-S) PODO/SVTERT152, human urine-derived podocytes (Evercyte, Cat# CLHT-033-0152) PODO/TERT256, human kidney tissue-derived podocytes (Evercyte, Cat# CHT-033-0256)

