

Protocol for passaging of HCEC-1CT

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Evercyte Ord. No.:	CkHT-039-0229
Designation:	HCEC-1CT, human colonic epithelial progenitor cells
Growth medium:	The ColoUp medium for cultivation of HCEC-1CT cells can either be ordered from Evercyte as ready-to-use medium (Cat# MHT-039) or as basal medium (Cat# MHT-039-B) plus supplements (Cat# MHT-039-S). The medium can also be prepared by mixing the following components: DMEM (Gibco, Cat # 61965-026) / M199 (Gibco, Cat# 31150022) (4+1)
	2 % Cosmic Calf Serum (Hyclone, Cat# SH30087, ready-to-use)
	20 ng/ml hEGF (Sigma-Aldrich, Cat# E9644)
	10 µg/ml Insulin (Sigma-Aldrich, Cat# I9278, ready-to-use)
	2 μg/ml Apo-Transferrin (Sigma-Aldrich, Cat# T2036)
	5 nM Sodium-Selenite (Sigma-Aldrich, Cat# S5261)
	1 μg/ml Hydrocortisone (Sigma-Aldrich, Cat# H0396)
	 take one bottle (500 ml) of DMEM and discard 100 ml add 100 ml of M199 and mix properly discard 11.6 ml DMEM/M199 mixture add 10 ml Cosmic Calf Serum (ready-to-use) add 500 μl of hEGF stock (20 μg/ml, prepared in cell culture grade water) add 500 μl of Insulin (10 mg/ml, ready-to-use) add 100 μl of Apo-Transferrin stock (10 mg/ml, prepared in M199) add 25 μl of Sodium-Selenite stock (100 μM, prepared in cell culture grade water) add 500 μl Hydrocortisone stock (1 mg/ml, prepared in cell culture grade water) mix properly and store at 4°C for up to 1 month 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 once with PBS (each 160 μl/cm²), remove PBS completely add Trypsin-EDTA solution (20 μl/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

- as soon as all cells are detached (if necessary, agitate the cells by gently hitting the flask), add Defined Trypsin Inhibitor (20 μ l/cm²)
- resuspend the cells in growth medium (160 μ l/ cm²) and aspirate the cells by pipetting
- centrifuge at 170 g for 5 min
- discard the supernatant, resuspend the cell pellet in the remaining droplet and add growth medium
- transfer appropriate aliquots of the cell suspension to new culture vessels supplemented with growth medium (final volume of 240 μ l/cm²)
- a split ratio of 1:16 twice a week is recommended (after cells have reached about 85-95 % confluence)
- cultivate cells at 37°C in a humidified atmosphere with 5% CO₂

Related products:

ColoUp ready-to-use medium, 500 ml (Evercyte, Cat# MHT-039) ColoUp basal medium, 500 ml (Evercyte, Cat# MHT-039-B)

ColoUp supplements (Evercyte, Cat# MHT-039-S)

HCEC-1CT, human colon epithelial cells (Evercyte, Cat# CkHT-039-0229)

