

Protocol for passaging of P-MSC/TERT308

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Version: September 2021

Evercyte Ord. No.:	CHT-051-0308
Designation:	P-MSC/TERT308, human placental amnion-derived mesenchymal stem cells
Growth medium:	MSC NutriStem [®] XF Medium (Biological Industries/SATORIUS, Cat# 05-200-1A) supplemented with G418
	<u>Final components</u> : MSC NutriStem® XF Basal Medium (Biological Industries/SATORIUS, Cat# 05-200-1) MSC NutriStem® XF Supplement Mix (Biological Industries/SATORIUS, Cat# 05-201-1) 200 μg/ml G418 (InvivoGen, Cat# ant-gn5, ready-to-use, 100 mg/ml)
	 take one bottle of MSC NutriStem[®] XF Basal Medium (500 ml) add 3 ml of MSC NutriStem[®] XF Supplement Mix add 1 ml of G418 stock solution
	 mix properly store at 4°C for a maximum of 4 weeks (if not used up in that time prepare smaller volumes accordingly) temper the medium to room temperature (not 37°C) before use
Coating:	NutriCoat [™] Attachment Solution
	The coating solution is prepared by mixing the following components: NutriCoat™ Attachment Solution (Biological Industries/SATORIUS, Cat# 05-760-1-15, stored at RT) Ringer Solution (B. Braun Ecoflac® Plus, ready-to-use, Cat# 33109, stored at RT)
	 For coating of a T25 roux flask proceed as follows: transfer 2 ml of Ringer Solution to a sterile tube, add 4 μl of NutriCoat[™] Attachment Solution and gently mix transfer the 1:500 diluted NutriCoat[™] Attachment Solution (1.8 ml) to a T25 roux flask (72 μ7/cm²) completely wet the surface of the culture flask incubate at 37°C for at least 1 hour remove excess of coating solution use culture flask immediately for seeding of cells, the surface must not to dry out
Additional reagents:	PBS (Sigma-Aldrich, Cat# D8537, ready-to-use, stored at RT) CTS™ TrypLE™ Select Enzyme (Gibco, Cat# A1285901, ready-to-use, stored at RT)

Passaging of cells:	 remove and discard the culture medium
	- wash the cells twice with PBS (each 160 μ l/cm ²), remove PBS completely
	 add CTS[™] TrypLE[™] Select Enzyme 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 growth medium (about 160 μl/cm²)
	- centrifuge at 180 g for 5 min
	- discard the supernatant, resuspend the cell pellet in the remaining droplet and add
	growth medium (about 160 μl/cm²)
	- transfer appropriate aliquots of the cell suspension to pre-coated culture vessels
	supplemented with growth medium (final volume of 240 μ l/cm ²)
	- a split ratio of 1:6 to 1:8 twice a week is recommended (after having reached about
	70-80 % confluence)
	- cultivate cells at 37° C in a humidified atmosphere with 5% CO ₂
Related products:	CP-MSC/TERT308, chorionic plate-derived MSCs (Evercyte, Cat# CHT-064-0308)
	RA-MSC/TERT308, reflected amnion-derived MSCs (Evercyte, Cat# CHT-050-0308)
	WJ-MSC/TERT273, Wharton's Jelly-derived MSCs (Evercyte, Cat# CHT-059-0273)
	ASC/TERT300, adipose-derived MSCs (Evercyte, Cat# CHT-001-0300)

