

## Protocol for passaging of LHCN-M2

Version: June 2025

page 1 of 2

Designation:  LHCN-M2, human skeletal muscle cells  MyoUp medium contains the herein described components and is prepared as described in the following:  DMEM (Gibco, Cat # 61965-026) / M199 (Gibco, Cat# 31150022) (4+1) 15 % FBS (e.g. PAN Biotech, Cat# P30-3031) 20 mM Hepes (Sigma-Aldrich, Cat# H0887) 3 µg/ml Zinc Sulfate (Sigma-Aldrich, Cat# V2876) 0.055 µg/ml Vitamin B12 (Sigma-Aldrich, Cat# V2876) 0.055 µg/ml Dexamethasone (Sigma-Aldrich, Cat# D4902) 2.5 ng/ml HGF (Merck Millipore, Cat# GF116) 5 ng/ml bFGF (Enantis, Cat# FGF-STAB)  - take one bottle (500 ml) of DMEM and discard 100 ml - add 100 ml of M199 and mix properly - discard 85 ml DMEM/M199 mixture - add 75 ml FBS (ready-to-use) - add 50 µl Zink Sulfate stock (30 mg/ml, prepared in cell culture grade water) - add 50 µl Vitamin B12 stock (14 mg/ml, prepared in cell culture grade water) - add 50 µl Vitamin B12 stock (14 mg/ml, prepared in cell culture grade water) - add 50 µl Dexamethasone stock (1 mM, prepared in cell culture grade water) - add 50 µl bFGF stock (50 µg/ml, prepared in cell culture grade water) - add 50 µl bFGF stock (50 µg/ml, prepared in cell culture grade water) - add 50 µl bFGF stock (50 µg/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  Coating:  O.1 % Gelatin solution The coating solution is prepared by mixing the following components:  Gelatin (Sigma-Aldrich, Cat# G1890) Cell culture grade water (Hyclone, Cat# SH30529.03)  - weigh 2 g of Gelatin in glass bottle - add 200 ml cell culture grade water - transfer bottle to water bath to dissolve Gelatin - autoclave resulting 1% Gelatin solution	Evercyte Ord. No.:	CkHT-040-231-2
in the following:  DMEM (Gibco, Cat # 61965-026) / M199 (Gibco, Cat# 31150022) (4+1)  15 % FBS (e.g. PAN Biotech, Cat# P30-3031)  20 mM Hepes (Sigma-Aldrich, Cat# H0887)  3 μg/ml Zinc Sulfate (Sigma-Aldrich, Cat# V2876)  0.055 μg/ml Dexamethasone (Sigma-Aldrich, Cat# D4902)  2.5 ng/ml HGF (Merck Millipore, Cat# GF116)  5 ng/ml HGF (Enantis, Cat# FGF-STAB)  - take one bottle (500 ml) of DMEM and discard 100 ml  - add 100 ml of M199 and mix properly  - discard 85 ml DMEM/M199 mixture  - add 75 ml FBS (ready-to-use)  - add 50 μl Zink Sulfate stock (30 mg/ml, prepared in cell culture grade water)  - add 50 μl Vitamin B12 stock (14 mg/ml, prepared in cell culture grade water)  - add 50 μl Vitamin B12 stock (1 mM, prepared in cell culture grade water)  - add 50 μl bFGF stock Solution (50 μg/ml, prepared in cell culture grade water)  - add 50 μl bFGF stock solution (50 μg/ml, prepared in cell culture grade water)  - add 50 μl bFGF stock Solution (50 μg/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  Coating:  O.1 % Gelatin solution  The coating solution is prepared by mixing the following components:  Gelatin (Sigma-Aldrich, Cat# G1890)  Cell culture grade water (Hyclone, Cat# SH30529.03)  - weigh 2 g of Gelatin in glass bottle  - add 200 ml cell culture grade water  - transfer bottle to water bath to dissolve Gelatin	Designation:	LHCN-M2, human skeletal muscle cells
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- transfer bottle to water bath to dissolve Gelatin		- weigh 2 g of Gelatin in glass bottle
		- add 200 ml cell culture grade water
- autoclave resulting 1% Gelatin solution		- transfer bottle to water bath to dissolve Gelatin
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- aliquot (5 ml) and store at 4°C until use

For coating of cell culture flasks, liquefy the 1% Gelatin solution at  $37^{\circ}$ C Add 45 ml cell culture grade water to 5 ml 1% Gelatin solution (final concentration 0.1%) and mix carefully

Store at 37°C until use (stable for 4 weeks)

For coating of a T75 roux flask proceed as follows:

- transfer 6 ml of Gelatin solution (0.1 %) to a T75 roux flask (final 80 μl/cm²)
- completely wet the surface of the culture flask
- incubate at 37°C for at least 4 hours (up to one week)
- remove excess of Gelatin solution
- use culture flasks immediately for seeding of cells, the surface must not dry out

## Additional reagents

PBS (Gibco, Cat# 14190-144, ready-to-use, stored at RT)

0.05 % Trypsin-EDTA (Gibco, Cat# 25300-054, ready-to-use, stored at 4°C after thawing) 0.1 % Gelatin (Sigma-Aldrich, Cat# G1890), dissolved in cell culture grade water

## Passaging of cells:

- remove and discard the culture medium
- wash the cells once with PBS, remove PBS completely
- add Trypsin-EDTA solution (20 μl/cm²), make sure that all cells have been in contact with Trypsin-EDTA and 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, add growth medium (about 160 μl/cm²) and aspirate cells by pipetting
- determine the viable cell number and add appropriate aliquots of the cell suspension to new Gelatin coated culture vessels filled with growth medium (final volume of 240  $\mu$ l/cm<sup>2</sup>)
- a seeding density of 1.200 cells/cm<sup>2</sup> is recommended
- cells should be split twice a week when having reached about 30-40 % confluence, never allow the culture to become confluent!
- cultivate cells at 37°C in a humidified atmosphere with 5 % CO<sub>2</sub>

## Related products:

- MyoUp (Cat# MHT-040), ready-to-use medium
- MyoUp2 (Cat# MHT-040-2, <u>for US customers</u>), this medium contains all components
  of MyoUp but FBS; before use, 75 ml FBS must be added to give rise to ready-to-use
  MyoUp medium

