

Endothelial Cell Culture Kit V-1, Porcine

(Porcine Cryopreserved Cell and culture medium)

Cat. No. PMC-ENC01-COS

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Principle

Endothelial cells of ENC01 are isolated from porcine aorta. They are characterized by acetylated LDL uptake. The kit contains cryopreserved endothelial cells and culture medium.

Components/Storage

Components	Size	Quantity	Storage Conditions	Shelf Life
Endothelial Cells, Porcine	5 x 10 ⁵ cells/vial	1	Liquid Nitrogen	6 months
Culture Medium (Code: ENCM)	250 ml	1	-20°C Freezer	6 months

Shipping: dry ice

Components of Media:

ENCM is a complete medium designed for optimal culture of porcine endothelial cells in vitro. They are sterile, liquid basal medium (DMEM) which contain essential and non-essential amino acids, vitamins, other organic compounds, trace minerals, inorganic salts, FBS, and antibiotics.

Materials required but not provided

- Variable volume pipettes
- 15 ml centrifuge tube
- 25 cm² flask

Precautions

- Read the instructions carefully before beginning the culture.
- This kit is for research use only, not for human or diagnostic use.
- Always wear gloves and lab coat when handling the cell culture.



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Protocols

- 1. Thaw the Culture Medium (Code: ENCM) in a 37 °C water bath with gentle shaking.
- 2. Add 10 mL of Culture Medium into a 15ml centrifuge tube.
- 3. Quickly thaw the endothelial cell vial in a 37[°]C water bath. (for 1min 15sec)
- 4. Transfer thawed cells into a 15 ml centrifuge tube containing 10 ml of Culture Medium and mix gently. Centrifuge for 5 minutes at 4°C at 200 g.
- 5. After removing the supernatant, resuspend cells in 10 ml of the medium.
- 6. Centrifuge for 5 minutes at 4°C at 200 g. After removing the supernatant, resuspend cells in 10 ml of the medium.
- Dispense 5 ml of cell suspension to 25 cm² flasks.
 If seeding into well plates or dishes, the recommended density is 1.0-1.5 x 10⁴ cells / cm².
- 8. Incubate the plate at 37°C under 5% CO₂, 100% humidity for overnight.
- 9. Change 5 ml of Culture Medium the day after seeding and every other day thereafter.
- 10. Endothelial cell culture becomes 80% within 2 3 days.

Subculture

- 1. Subculture the cells when they are 80% confluent.
- 2. Rinse twice the cells with room temperature Hank's BSS or PBS.
- 3. Replace 3 ml of trypsin/EDTA solution (0.05% trypsin, 0.53mM EDTA) into flask and remove it immediately.
- 4. Cells are covered by trypsin/EDTA solution; continue trypsinization until cells are completely rounded up (monitored with inverted microscope).
 Caution: If only a few cells detach, warm the flask at 37°C.

We do not recommend continueing over 15 minutes of trypsinization.

- Add Culture Medium to stop of the trypsinization, and then transfer the cells into a centrifuge tube.
 Centrifuge for 5 minutes at 4°C at 200 g.
- After removing the supernatant, add culture medium.Count cell and plate cells in a new culture vessel.

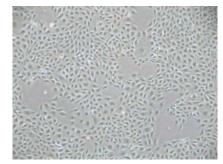


Fig. 1 Morphology of endothelial cells



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