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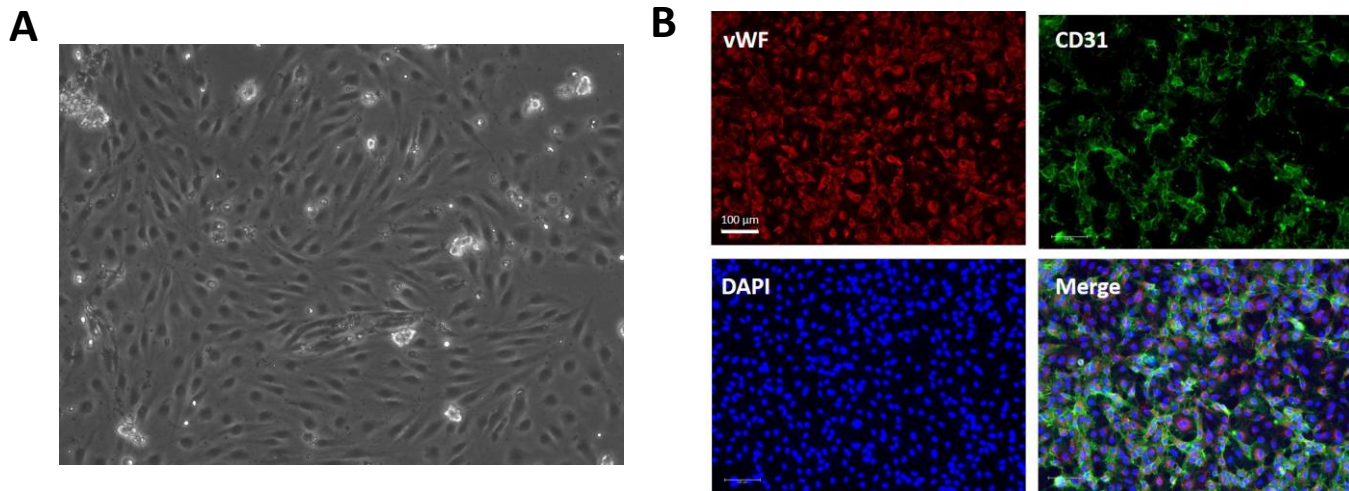
## Product Information

### Porcine Pulmonary Microvascular Endothelial Cells (PPMEC)

Catalog Number	10PO-008	Cell Number	0.5 x 10 <sup>6</sup> cells/vial
Species	<i>Sus scrofa</i>	Storage Temperature	Liquid Nitrogen

### Description

iXCells Biotechnologies provides high quality Porcine Pulmonary Microvascular Endothelial Cells (PPMEC), which are isolated from adult porcine pulmonary arteries and cryopreserved at P1, with >0.5 million cells in each vial. These PPMEC are negative for mycoplasma, bacteria, yeast, and fungi and can further expand in Endothelial Cell Growth Medium (Cat# MD-0010) under the condition suggested by iXCells Biotechnologies.



**Figure 1. (A)** Phase contrast image of Porcine Pulmonary Microvascular Endothelial Cells (PPMEC). **(B)** Immunofluorescence staining of Porcine Pulmonary Microvascular Endothelial Cells (PPMEC) using antibodies against vWF (green) and CD31 (green). Scale bar: 100µm.

### Product Details

Tissue	adult porcine pulmonary arteries
Package Size	0.5 x 10 <sup>6</sup> cells/vial
Passage Number	P1

<b>Shipped</b>	Cryopreserved
<b>Storage</b>	Liquid nitrogen
<b>Growth Properties</b>	Adherent
<b>Media</b>	Endothelial Cell Growth Medium (Cat# MD-0010)

## Protocols

### Thawing of Frozen Cells

1. Upon receipt of the frozen Porcine Pulmonary Microvascular Endothelial Cells (PPMEC), it is recommended to thaw the cells and initiate the culture immediately in order to retain the highest cell viability.
2. Coat the culture vessels with 0.1% gelatin for more than 20 minutes at room temperature before use.
3. To thaw the cells, put the vial in 37°C water bath with gentle agitation for ~1 minute. Keep the cap out of water to minimize the risk of contamination.
4. Pipette the cells into a 15ml conical tube with 5ml fresh Endothelial Cell Growth Medium (Cat# MD-0010).
5. Centrifuge at 1,000rpm (~220g) for 5 minutes under room temperature.
6. Remove the supernatant and resuspend the cells in fresh culture medium.
7. Culture PPMEC in 100 mm culture dish or T75 flask pre-coated with 0.1% gelatin.
8. Change the medium every other day until the culture is approximately 90% confluent.

**Safety Precaution:** *it is highly recommended that protective gloves and clothing should be used when handling frozen vials.*

### Standard Culture Procedure

1. Porcine Pulmonary Microvascular Endothelial Cells (PPMEC) can be cultured in Endothelial Cell Growth Medium (Cat# MD-0010).
2. When cells reach ~80-90% confluence, remove the medium, and wash once with sterile PBS (5ml/T75 flask).
3. Add ~2.5ml of 0.25% Trypsin-EDTA to the flask and incubate for ~3 minutes at 37°C. Neutralize the enzyme by adding 2-3 volumes of cell culture medium.
4. Centrifuge 1,000rpm (~220g) for 5min and resuspend the cells in desired volume of medium.
5. Seed PPMEC on the gelatin-coated new culture vessels at  $5 \times 10^3$  cells/cm<sup>2</sup>.

## Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans. While iXCells Biotechnologies uses reasonable efforts to include accurate and up-to-date information on this product sheet, we make no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. iXCells Biotechnologies does not warrant that such information has been confirmed to be accurate.

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