

## Datasheet

# Endopan MV

## Special Medium for Microvascular Endothelial Cells

Product	Description	Catalogue-No.	Size
Endopan MV ready-to-use	Special complete Medium formulated for microvascular endothelial cells	P04-00200	500 ml
Endopan MV Kit	Special formulated Medium for microvascular endothelial cells with 6 Supplements	P04-0020K	500ml

### General Information:

Endothelial cells line blood and lymphatic vessels and the internal cavities of the heart and play a key role in many physiological and patho-physiological processes. Adhesion among the cells is enabled by desmosomes and tight-junctions. A huge number of soluble factors circulating in the blood or released by neighbouring cells control proliferation or apoptosis of endothelial cells and the invasion of leucocytes to the endothelium, thereby regulating the maintenance, degeneration, or regeneration of blood vessels.

### Product Information:

**Endopan MV ready to use** is a medium specially developed for the in vitro culture of human microvascular endothelial cells (MV-EC) containing all components necessary for optimal growth. It is designed for use in an incubator at 37 °C with a 5 % CO<sub>2</sub> atmosphere.

**Endopan MV kit** is provided with FBS and supplements in separate sterile packaging. This will enable the user to prepare a medium for special applications. For example FBS, VEGF, FGF-2 or other components may be omitted from the complete medium for specific experimental settings. Please note that such a formulation will not promote optimal cell growth.

### Storage conditions

Storage: Complete and basal medium: 2 – 8 °C in the dark;  
Supplements: - 20 °C  
Stability: Basal Medium: 12 months  
Complete Medium: 3 months  
Filling: 500 ml, other sizes on request

### Composition

**Endopan MV kit** contains the following in single packaging:

- EGF (human recombinant Epidermal Growth Factor)
- FGF-2 (basic Fibroblast Growth Factor)
- VEGF (Vascular Endothelial Growth Factor)
- Vitamin C (Ascorbic acid phosphate)
- R3-IGF-1 (human recombinant Insulin-like Growth Factor)
- FBS (Fetal Bovine Serum)
- G/A (Gentamicin/Amphotericin)
- Hydrocortisone

### Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

**Instructions for use**

For a T25 cell culture flask it is recommended to use 5ml of Endopan 3 for smaller or larger culture area, please adjust the volume accordingly.

After thawing cells, change medium after 24 h to remove unattached cells. For maintenance and propagation change medium every two or three days. For cultures close to confluence or for maximum proliferative response it is recommended to use more medium or more frequent medium changes.

The basal and complete medium should not be frozen.

Endopan MV is a low serum medium (6 % FBS content). It is not suited for stopping trypsin activity.

Please use a Trypsin inhibitor to stop the trypsin reaction or use Accutase to detach the cells.

**Technical Support**

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com)) or phone +49-8543-601630.