

CELLKit

HUVEC/TERT66 **+** ***Endopan 300 SL Plus Kit***

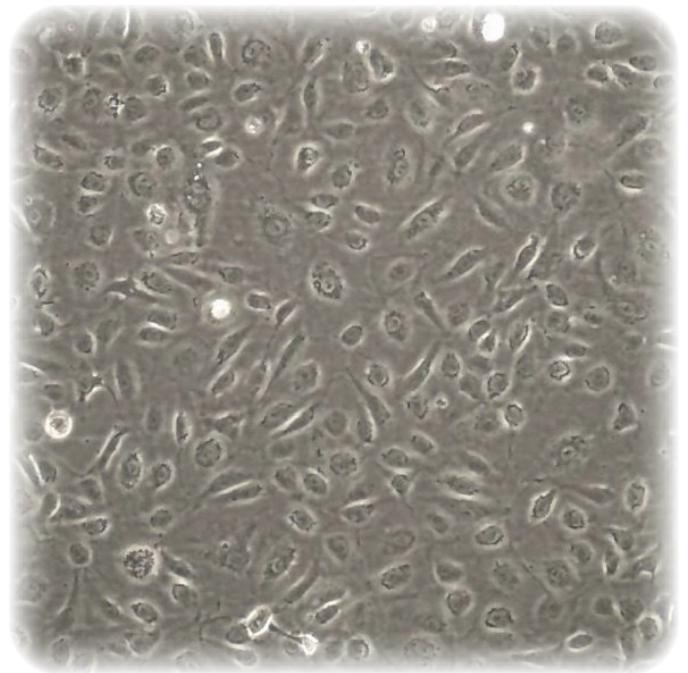


Photo: Evercyte GmbH/HUVEC/TERT66 cells



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Endopan 300 SL Plus Kit

Serum-free complete medium for human endothelial cells

Endopan 300 SL is designed for serum-free culture of endothelial cells directly after isolation. This exclusive product is optimized for the maintenance and expansion of endothelial cells under serum-free culture conditions.

Endopan 300 SL kit is provided with serum substitute (Panexin SL-S, P04-0065S) and supplements in separate sterile packaging. This will allow the user to prepare media for individual applications.

For example, VEGF, FGF-2, or other components may be omitted from the complete medium for specific experimental settings.

Supplements

- ✓ Serum substitute Panexin SL-S
- ✓ EGF
- ✓ FGF-2
- ✓ VEGF
- ✓ Vitamin C
- ✓ R3-IGF-1
- ✓ GA
- ✓ Hydrocortisone
- ✓ Heparin



Product	Size	Cat.No.
Endopan 300 SL Plut Kit	500 ml kit	P04-0065PK
Endopan Basal Medium	500 ml	P04-0065B
Supplement Pack		P04-0065S



Human umbilical vein endothelial cells (HUVEC/TERT66)

Vascular endothelial cells line the inner surface of blood vessels, thereby directly interacting with the blood stream. These cells show distinct functions in processes such as angiogenesis, vascular permeability, leukocyte trafficking or coagulation and fibrinolysis.

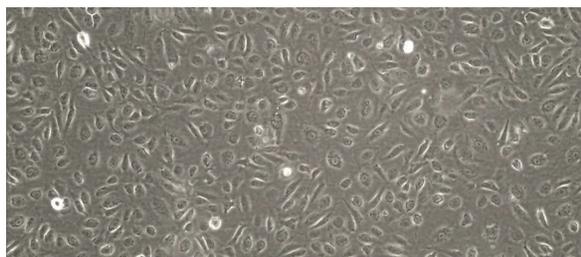


Photo: Evercyte GmbH/HUVEC/TERT66 cells

Human umbilical vein endothelial cells (HUVEC) are valuable in vitro model that has contributed significantly to major insights in regulation of endothelial cell function and angiogenesis or the pathophysiology of atherosclerosis and plaque formation.

Product	Cat.No.
HUVEC/TERT66	P09-1000-4

HUVEC/TERT66 cell line

- ✓ Original tissue: human umbilical cord
- ✓ Life span extension of isolated HUVECs by introduction of hTERT (catalytic subunit of human telomerase)
- ✓ Expression of cell-type specific markers von Willebrand factor (vWF) and PECAM-1 (CD31)
- ✓ Formation of neoangiogenic webs upon cultivation on matrigel matrix
- ✓ Growth in serum-free medium, towards standardized cell culture conditions

Growth and quality

HUVEC/TERT66 cell line can be cultured continuously with a stable growth rate without showing signs of growth retardation or replicative senescence, whereas the parental cells senesced after having reached 23 PDs. The population doubling time of HUVEC/TERT66 cells is about 72 hours.

Cells do not show contaminations with bacteria (incl. mycoplasma), are tested negative for presence of certain human-pathogenic viruses and are characterized for their STR profile.

Applications

- ✓ Screening for pro- or anti-angiogenic factors
- ✓ Study of vascularization in response to hypoxic conditions in tumors or ischemic tissues
- ✓ Co-culture with telomerized MSCs (ASC/TERT1) as enhanced in vitro model for studying vascular biology
- ✓ Assessment of interaction with leukocytes and macrophages, study of inflammation

References

Chang M. et al. 2005, Experimental Cell Research. PMID: 15964568



Your expert in cell culture

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Edition 2018



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