

P10961

The vascular endothelial cells contribute to the maintenance of vascular homeostasis. They synthesize and secrete activators as well as inhibitors of both the coagulation system and the fibrinolysis system in addition to mediators that influence the adhesion and aggregation of blood platelets.

Endothelial cells also release molecules that control cell proliferation and modulate vessel wall tone. Many of the endothelial processes can be studied in vitro using cultured cells, and human umbilical vein endothelial cells (HUVEC) are the most commonly used cell type for such studies.

Except for the common endothelial cell features such as "cobblestone" morphology, positive staining for Factors VIII and the ability to take up acetylated low-density lipoprotein, HUVEC stain positively with CD-31.



HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS

Product type: Cryo-preserved Umbilical Endothelial Cells

Catalog Number: P10961

Source: Human Umbilical Vein

Number of Cells/vial: 5×10^5 cells / vial (1ml)

Storage: Liquid Nitrogen

Background

Human Umbilical Vein Endothelial Cells (HUVEC) provided by Innoprot are isolated from human umbilical vein. HUVEC are cryopreserved at passage one and delivered frozen and are guaranteed to further expand for 15 population doublings in the condition provided by Innoprot.

Recommended Medium

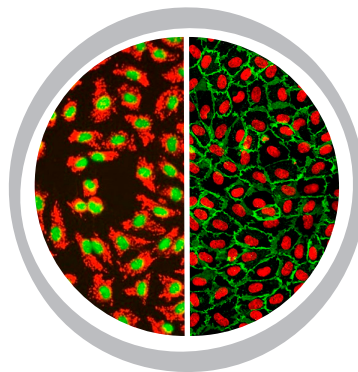
Ref. P60104 - Endothelial Cell Medium Kit.

Characterization

Immunofluorescent method

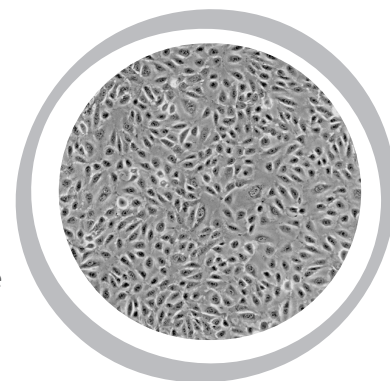
- o vWF/Factor VIII
- o CD31 (P-CAM)

Uptake of Dil-Ac-LDL



vWF/Factor VIII

CD31 (P-CAM)



Phase contrast image

The cells are tested negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.

THIS PRODUCT IS FOR RESEARCH PURPOSES ONLY

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