

ENDOTHELIAL CELLS

UMBILICAL CORD

Human Umbilical Vein Endothelial Cells (HUVEC)



SHIPPING PARIS AREA ONLY

PRODUCTS	PASSAGE	NUMBER OF CELLS / FLASK	CATALOGUE NUMBER
Isolated human umbilical vein endothelial cells (HUVEC), fresh	P1	800,000	2002-800FP1
Isolated human umbilical vein endothelial cells (HUVEC), fresh	P2	800,000	2002-800FP2
Isolated human umbilical vein endothelial cells (HUVEC), fresh	P3	800,000	2002-800FP3

Abcell-bio offers perinatal mature endothelial cells isolated from human umbilical cord vein.

Human Umbilical Vein Endothelial Cells (HUVEC) provide a classic model system to study multiple aspects of endothelial function and diseases, such as normal and tumor-associated angiogenesis, oxidative stress, hypoxia and inflammation related pathways and mechanisms of action studies for cardiovascular-related diseases.

Cells are provided in a 25-cm² flask.

QUALITY CONTROL

HUVEC are tested by flow cytometry for specific markers of endothelial cells, such as CD31, CD144, KDR. HUVEC fresh produced by Abcell-bio can be provided at passage 1, 2, or 3. **Virological (HIV1/2, HBV, HCV) and mycoplasma detection tests** are performed on all batches. A full certificate of analysis is provided for each batch of HUVEC ordered.

PRECAUTIONS FOR USE

Although testing for HIV, HBV and HCV contamination is negative, these products must be handled using Biosafety Level 2 conditions.

PRODUCT HIGHLIGHTS

- Ready-to-use cells.
- Single donor.
- Phenotypic characterisation of cells.
- Guaranteed number of live cells upon receipt.
- Customization upon request: specific batch size (75-cm² flasks), biological data, functional tests, supplementary virological tests (HTLV 1/2, CMV).

RECOMMENDED PROTOCOL

EndoMac2.2 medium is recommended for HUVECs culture

The flask containing the fresh cells is delivered at room temperature. Upon receipt, immediately change the medium following these steps :

- 1 Manipulate in a sterile environment.
- 2 Prepare the culture medium and warm at 37°C.
- 3 Remove the transport medium and add the minimum required volume of fresh medium (5 mL per 25-cm² flask).
- 4 Incubate the flask at 37°C, 5% of CO₂ 12 hours before use.
- 5 Change the culture medium every 2 days before use. The seeding density during the passages must be 10,000 cells/cm².

STORAGE

- Incubate at 37°C, 5% of CO₂.

ABCELL-BIO GUARANTEES CELL QUALITY ONLY IF RECOMMENDED PROTOCOL IS RESPECTED

THESE CELLS ARE FOR SCIENTIFIC USE ONLY; NOT INTENDED FOR MEDICAL, HUMAN OR VETERINARY APPLICATIONS.