



Universal Tube Formation Media

Catalog #: MED003

Size: 500 ml

Storage: Store the medium at 2-8°C Celsius

Format: Liquid

Sterilization: 0.2 µm sterile filtered

GENERAL INFORMATION

It has been demonstrated that endothelial cells will rapidly form capillary-like structures *in vitro* when plated on top of a reconstituted basement membrane extracellular matrix. Using this method, it takes around a week to see any tube formation. However, our Universal Tube Formation Media provides a quick and robust method to measure the ability of endothelial cells to form three-dimensional tube structures *in vitro* in less than 18 hours.

Each lot of media is subjected to comprehensive quality control tests using primary human cells. A panel of different bioassays affirms the media sustain a proper environment for expected cell-type-specific culture, growth, plating, karyotype, physiology, morphology, viability, population doublings, surface markers, cryopreservation, differentiation, and/or induction.

In addition, every lot of media is tested for the absence of microbial contaminants (fungi, bacteria, mycoplasma). The products undergo further quality control for correct pH, osmolality, and lack of endotoxins.

Product is for Research use only. Our products are not authorized for human use, in vitro diagnostic procedures, or for therapeutic procedures.

Storage Condition: Store the medium at 2-8°C. Item is shipped with gel paks.

Note: To ensure sterility after 2 weeks or if there is concern that sterility was compromised during the supplementation process, the prepared medium may be re filtered with a 0.2 µm filter.

Applications:

- Study angiogenic and antiangiogenic factors
- Define mechanisms and pathways involved in angiogenesis
- Define endothelial cell populations.

Culturing Cells:

1. When culturing cells using this media, seeding them at 50% of normal density is important. The extra space is needed for the endothelial cells to form tubes.
2. Check the cells 24 hours after seeding.
3. Change the medium 48 hours after seeding. Be very gentle when changing the cell culture media to avoid damaging the forming tube networks.

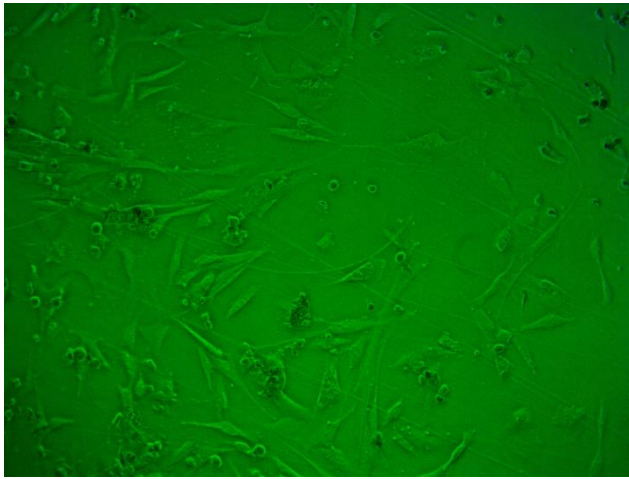
Images of different endothelial cell types in culture using Universal Tube Formation Media. Tube formation can be observed.

FOR RESEARCH USE ONLY

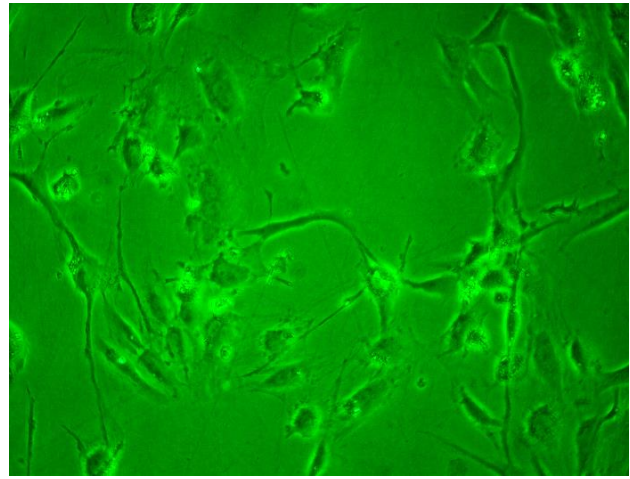
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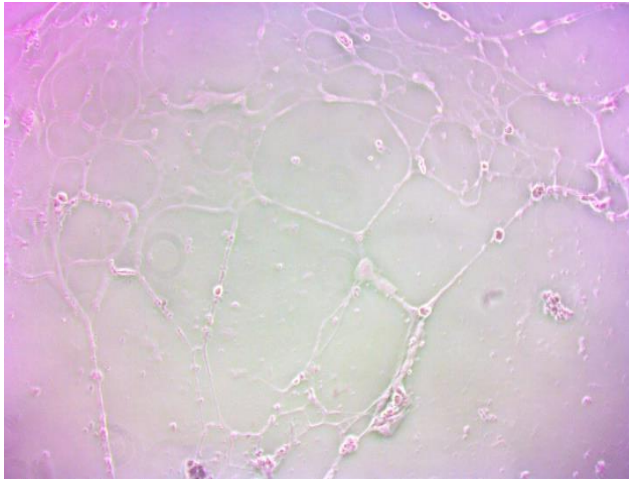
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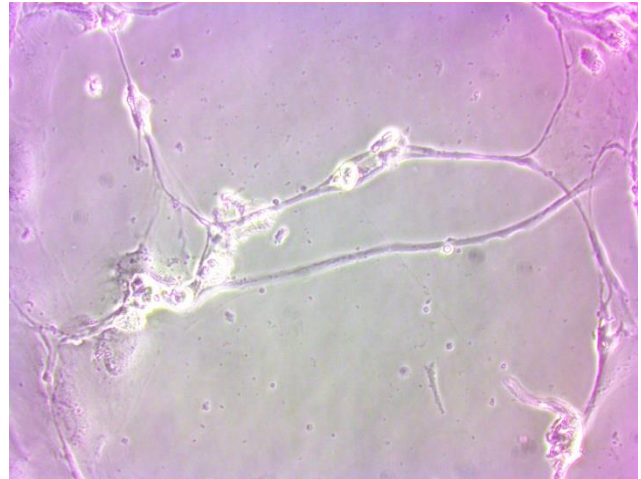
Human Umbilical Vein Microvascular Endothelial Cells (cat. HEC01)



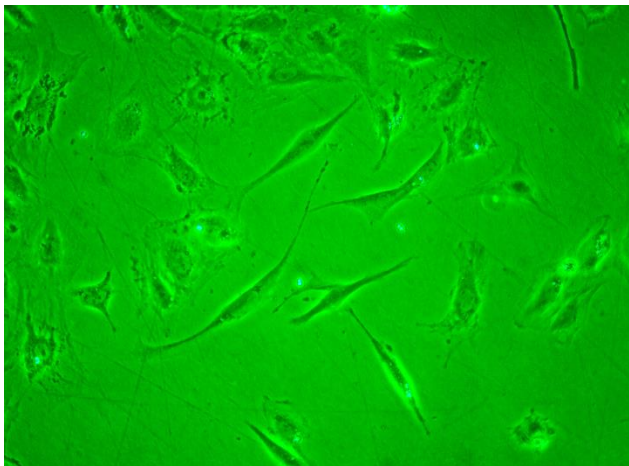
Human Pancreatic Microvascular Endothelial Cells (cat. HEC08)



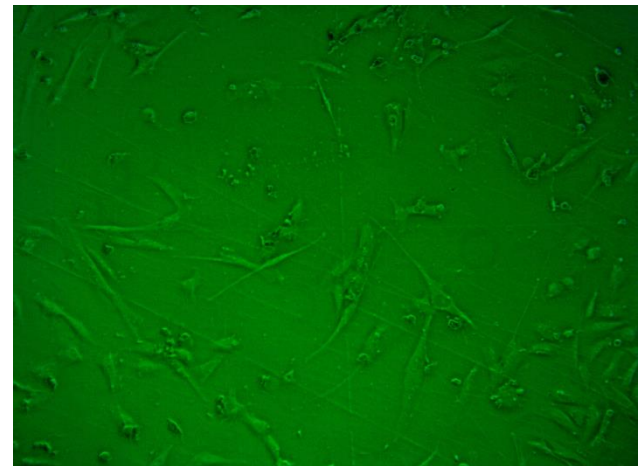
Human Brain Microvascular Endothelial Cells (cat. HEC02)



Human Glomerular Microvascular Endothelial Cells (cat. HEC04)



Human Dermal Lymphatic Microvascular Endothelial Cells (cat. HEC03)



Human Retinal Microvascular Endothelial Cells (cat. HEC09)

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