



11 Park Drive, Suite 12  
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## Bovine Lung Microvascular Endothelial Cells

### ORDER INFORMATION

**Name of Cells:** Bovine Lung Microvascular Endothelial Cells (**bLuMVECs**)  
**Catalogue Number:** **cAP-b0003**  
**Product Format:** Proliferating culture  
**Cell Number:** > 90% confluent in T25 flask

### General Information:

**bLuMVECs (cAP-b0003)** are isolated from young healthy bovine lung tissue. The cells are shipped in proliferating culture with >90 confluence (the cells are provided @ passage 2). Endo-Growth Medium (cAP-02) is recommended for the expansion of **bLuMVECs** and these cells can be propagated to sixth passage and beyond without losing their morphologic and phenotypic characteristics when cultured following the detailed protocol described below).

### Characterization of the cells

PECAM1: >**95% positive by immunofluorescence**  
VE-Cadherin: >**95% positive by immunofluorescence**  
negative for mycoplasma.

**Product Use:** bLuMVECs are for research use only.

**Shipping:** Proliferating culture in T25 flask.

### Handling of Arriving Cells

When you receive the cells, leave the flask in 37°C CO<sub>2</sub> incubator for 1 hour first, and then replace the transport medium with Endo-growth medium. Let the cells to grow for 24 hour before subculture if the cells are not completely confluent.

### 1. Subculture Protocol:

- A) Rinse the cells in T25 flask with 5ml DPBS (**Room Temperature, RT**) twice.
- B) Add 2ml of Trypsin/EDTA (**RT**) (Invitrogen Catalogue number: 25300-062) into T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the Trypsin/EDTA solution **within 10 seconds** with aspiration.
- C) Leave the T25 flask with the cells at **RT** for 1-2 minute (the cells will normally come off the surface within 1 minute, monitor the cell under microscopy).
- D) Suspend the cells with 20ml of Endo-Growth Medium and then split cell suspension into 2 T25 flasks (10ml each, and the cells are subcultured at 1:2 ratio)

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, [angioproteomie@gmail.com](mailto:angioproteomie@gmail.com)



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## **2. Cell culture protocol (proliferating):**

- A) Endo-growth medium should be changed every other day.
- B) The cells normally become confluent within 5-6 days (when split at 1:2 ratio).

Although primary cells are tested pathogen-free, investigators should handle these cells with caution and treat all animal cells as potential pathogens, since no test procedure can completely guarantee the absence of infectious agents.

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