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Product Information

Epithelial Pro—Conditioned Medium

CAT NUMBER: D-Pro-015-25; D-Pro-015-50; D-Pro-015-100

PRODUCT DESCRIPTION:

DV Biologics has developed Epithelial Pro-Conditioned Medium (D-Pro-015) with proprietary methodology for the optimal growth and expansion of human epithelial cells. This animal free conditioned media when used in conjunction with your epithelial cell media aids in the propagation and maintenance of epithelial cells isolated from various tissue sources such as intestines, kidneys, and esophagus.* In addition, this medium may aid in your cell differentiation experiments into epithelial cell types.

Epithelial Pro-Conditioned Medium has been derived from cells of human origin.
*To be used in conjunction with your epithelial cell medium.

HANDLING INSTRUCTIONS:

D-Pro-015 Medium is shipped in dry ice. Upon arrival place into -20°C for long term storage. When ready to use place into 4°C overnight for thawing. Once thawed, take your necessary aliquot and place into 37°C for culture. Medium is light sensitive, therefore, caution must be taken when exposing it to light.

It is recommended to use D-Pro-015 medium for the culture of thawed and subcultured epithelial cells. **Refer to respective culture instruction manual and protocols for the desired epithelial cells to be grown.**

QUALITY CONTROL:

Media (D-Pro-015-25; D-Pro-015-50; D-Pro-015-100) undergoes sterility testing to assure it is free from bacterial and fungal contamination. All human derived material is tested for infectious disease agents prior to being used in the production of conditioned media. All human derived material has been obtained using protocols with IRB approval (see ethics statement www.dvbiologics.com). The media has been tested via culture systems which have been optimized using different types of epithelial cells. This leads to optimal growth parameters. In addition, pH and other parameters are evaluated in order to meet standards required for optimal growth of epithelial cells.

STORAGE CONDITIONS:

Store in the dark.
When frozen: Long term at -20°C.
When thawed: Short term at 4°C.

SHELF LIFE:

Stable at -20°C for 1 year.
Stable at 4°C for 14 days.

FIGURES USING MEDIA:

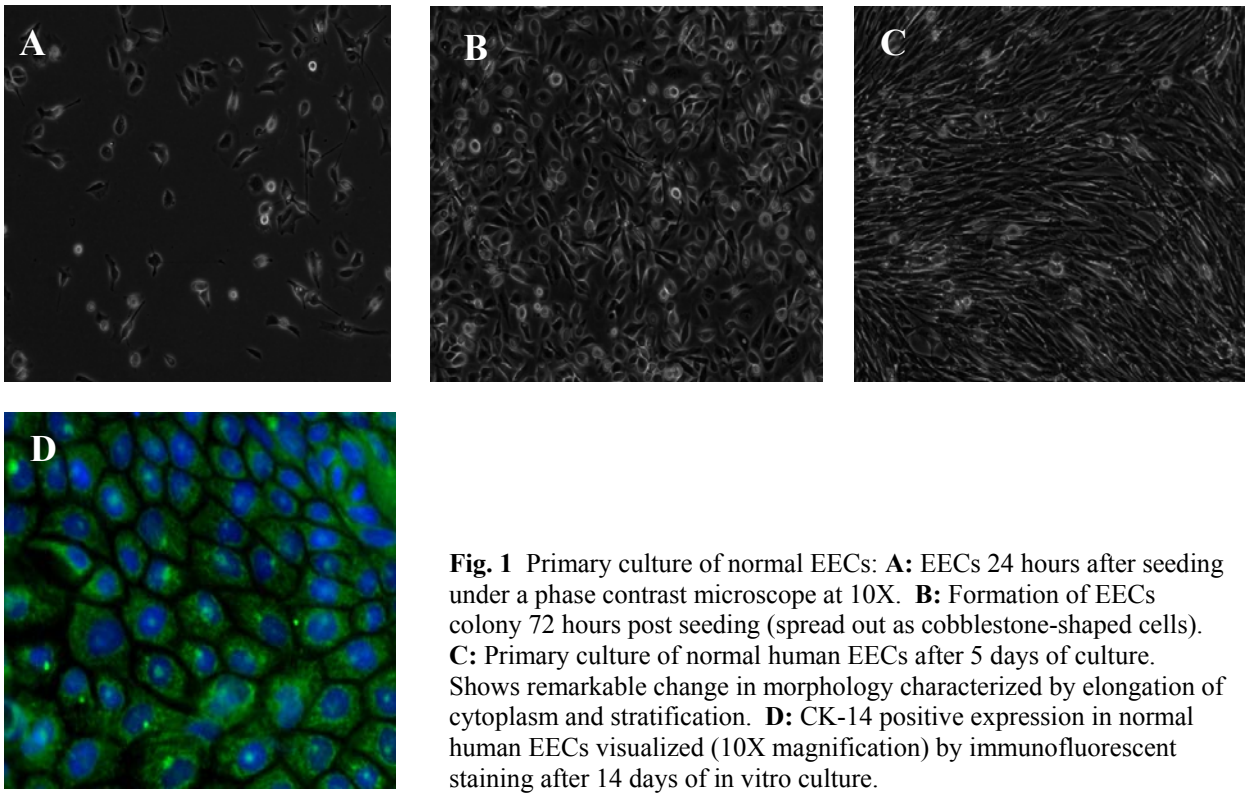

Fig. 1 Primary culture of normal EECs: **A:** EECs 24 hours after seeding under a phase contrast microscope at 10X. **B:** Formation of EECs colony 72 hours post seeding (spread out as cobblestone-shaped cells). **C:** Primary culture of normal human EECs after 5 days of culture. Shows remarkable change in morphology characterized by elongation of cytoplasm and stratification. **D:** CK-14 positive expression in normal human EECs visualized (10X magnification) by immunofluorescent staining after 14 days of in vitro culture.

RELATED PRODUCTS:	Fibroblast Cellutions media (I-Gro-001-100); Whole small intestines (uncultured) (pD007-f); Human small intestine epithelial cells (pD015-f); Human esophagus epithelial cells (pD016-f); Human whole kidney (uncultured) (pU001-f); Human kidney epithelial cells (pU002-f).

PRECAUTIONS AND DISCLAIMERS:

Warranty
DV Biologics is committed to provide superior products and warrants only and not for any particular purpose of the purchases, that all products sold will perform according to established product specifications. Full warranty information for cell based products and media may be requested to our technical support or sales team at the number provided above.

Product Use/Safety Statement
CELL BASED MATERIALS ARE FOR RESEARCH USE ONLY. Not approved for human or veterinary use, for application to humans or animals, or for use in in-vitro diagnostic or clinical procedures.

WARNING: THE ACCOMPANYING CELL BASED PRODUCT CONTAINS HUMAN SOURCE MATERIAL, TREAT AS POTENTIALLY INFECTIOUS. All Donors are tested for the presence of HIV-I, Hepatitis B Virus and Hepatitis C Virus. Furthermore, sterility testing is performed to rule out bacterial contamination.

Material Safety and Data Sheets (MSDSs)
Can be requested via e-mail or by calling our technical support number provided above. In addition, the MSDS can be mailed, e-mailed or faxed depending on the requested method for delivery.

REFERENCES:

1. Saxena et al. (2009). Esophagus tissue engineering: in vitro generation of esophageal epithelial cell sheets and viability on scaffold. *J Pediat Surg* 44: 896-901.

2. Day (2006). Epithelial stem cells and tissue engineered intestines. *Curr Stem Cell Res Ther.* 1(1):113-20.
3. Fagerholm (2007). Prediction of human pharmacokinetics--gut-wall metabolism. *J Pharm Pharmacol.* 59(10):1335-43.