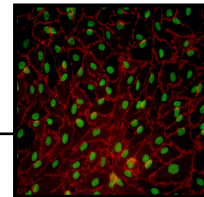


Clonetics™ Dermal Lymphatic Microvascular Endothelial Cell Systems HMVEC-dLy



Introduction

Clonetics™ Dermal Lymphatic Microvascular Endothelial Cell Systems contain dermal-derived Normal Human Lymphatic Microvascular Endothelial Cells (HMVEC-dLy) and media optimized for their growth. Each System can quickly generate HMVEC-dLy cultures for experimental applications in circulatory physiology, wound healing, lymphangiogenesis, immunology and drug development. Clonetics™ Dermal Lymphatic Microvascular Endothelial Cell Systems are convenient and easy to use, allowing the researcher to focus on results. Cryopreserved HMVEC-dLy are shipped in third passage. Proliferating HMVEC-dLy are shipped in fourth or fifth passage.

Clonetics™ Cells, Medium and Reagents are quality tested together and guaranteed to give optimum performance as a complete Cell System.

Cell System Components (Need to be purchased separately)

- One dermal derived Lymphatic Microvascular Endothelial Cell Product (Cryopreserved or Proliferating)
- One Endothelial Cell Medium BulletKit™ - 500 ml
Clonetics™ EGM™-2 MV BulletKit™ (CC-3202) contains one 500 ml bottle of Endothelial Cell Basal Medium-2 and the following growth supplements: hEGF, 0.5 ml; Hydrocortisone, 0.2 ml; GA-1000, 0.5 ml; FBS, 25 ml; VEGF, 0.5 ml; hFGF-B, 2.0 ml; R³-IGF-1, 0.5 ml; Ascorbic Acid, 0.5 ml.
- One ReagentPack™ (CC-5034) Containing:

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|--------------------------------|--------|
| Trypsin/EDTA | 100 ml |
| Trypsin Neutralizing Solution | 100 ml |
| HEPES Buffered Saline Solution | 100 ml |

Characterization of Cells

Routine characterization of HMVEC-dLy includes immunofluorescent staining. Cells stain positive for acetylated LDL and von Willebrand's (Factor VIII) antigen and stain negative for smooth muscle α -actin. Lymphatic microvascular endothelial cells are at least 95% double positive for CD31 (PECAM-1) and Podoplanin by flow cytometry.

Performance

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| Recommended seeding density for subculture | 5,000 cells/cm ² |
| Typical time from subculture to confluent monolayer | 4 to 7 days |
| Additional population doublings guaranteed using Clonetics™ System | 12 |

Quality Control

All cells are performance assayed and test negative for HIV-1, mycoplasma, Hepatitis-B, Hepatitis-C, bacteria, yeast and fungi. Cell viability, morphology and proliferative capacity is measured after recovery from cryopreservation. Clonetics™ Media are formulated for optimal growth of specific types of normal human cells. Certificates of Analysis (COA) for each cell strain are shipped with each order. COA for all other products are available upon request.

Ordering Information

Cryopreserved Cells

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|---------|-------------------------|----------------|
| CC-2810 | HMVEC-dLy Ad, Adult | ≥500,000 cells |
| CC-2812 | HMVEC-dLy Neo, Neonatal | ≥500,000 cells |

Proliferating Cells – Flasks and Multiwell Plates

HMVEC-dLy Ad

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|------------|---------------|
| CC-2810T25 | T-25 Flask |
| CC-2810T75 | T-75 Flask |
| CC-2810W96 | 96-well Plate |

HMVEC-dLy Neo

| | |
|------------|---------------|
| CC-2812T25 | T-25 Flask |
| CC-2812T75 | T-75 Flask |
| CC-2812W96 | 96-well Plate |

Other proliferating formats are available. Contact Scientific Support or refer to the Lonza website for details.

| | | |
|---------|--|--------|
| CC-3202 | EGM™-2-MV BulletKit™, EBM™-2 plus SingleQuots™ of Growth Supplements | 500 ml |
| CC-3156 | EBM™-2, Endothelial Cell Basal Medium-2 | 500 ml |
| CC-4147 | EGM™-2-MV SingleQuots™, Formulates EBM™-2 to EGM™-2-MV | |
| CC-5034 | ReagentPack™ | |
| | Trypsin Neutralizing Solution | 100 ml |
| | Trypsin/EDTA Solution | 100 ml |
| | HEPES Buffered Saline | 100 ml |

When placing an order or for technical service, please refer to the product numbers and descriptions listed above. For a complete listing of all Clonetics™ Products, refer to the Lonza website or the current Lonza catalog. To obtain a catalog, additional information or technical service you may contact Lonza by web, e-mail, telephone, fax or mail.

Product Warranty

CULTURES HAVE A FINITE LIFESPAN IN VITRO. Lonza guarantees the performance of its cells only if Clonetics™ Media and Reagents are used exclusively, and the recommend protocols are followed. The performance of cells is not guaranteed if any modifications are made to the complete Cell System. Cryopreserved HMVEC-dLy are assured to be viable and functional when thawed and maintained properly.

THESE PRODUCTS ARE FOR RESEARCH USE ONLY. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or in vitro procedures.

WARNING: CLONETICS™ AND POIETICS™ PRODUCTS CONTAIN HUMAN SOURCE MATERIAL, TREAT AS POTENTIALLY INFECTIOUS. Each donor is tested and found non-reactive by an FDA approved method for the presence of HIV-1, Hepatitis B Virus and Hepatitis C Virus. Where donor testing is not possible, cell products are tested for the presence of viral nucleic acid from HIV, Hepatitis B Virus, and Hepatitis C Virus. Testing can not offer complete assurance that HIV-1, Hepatitis B Virus, and Hepatitis C Virus are absent. All human sourced products should be handled at the Biological Safety Level 2 to minimize exposure of potentially infectious products, as recommended in the CDC-NIH Manual, [Biosafety in Microbiological and Biomedical Laboratories](#), 5th Edition. If you require further information, please contact your site Safety Officer or Scientific Support.