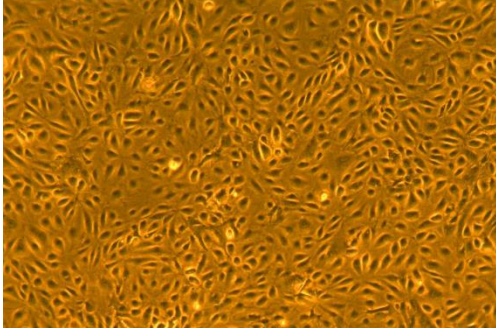


Human Dermal Microvascular Endothelial Cells-Neonatal (HD-MVECn) Specification Sheet



HD-MVECn cultured in VascuLife EnGS-Mv, passage 4, 5 days after inoculation with 5,000 cells/cm² (100X).

CELL FEATURES:

- HD-MVECn are cryopreserved after less than 4 weeks in culture.
- HD-MVECn provide an ideal culture model for the study of angiogenesis, atherosclerosis, or vascular biology.
- HD-MVECn may be cultured with or without VEGF.
- HD-MVECn are extensively tested for quality and optimal performance.
- Lifeline guarantees performance and quality.

HUMAN DERMAL MICROVASCULAR ENDOTHELIAL CELLS ARE TESTED FOR:

• Cell Count	500,000 cryopreserved cells per vial
• Proliferation	Optimal growth over a period of at least 15 population doublings while remaining naïve to VEGF
• Cell Viability	Minimum 70% viability when thawed from cryopreservation
• Sterility Testing	Negative for mycoplasma Negative for bacterial and fungal growth
• Virus Testing	Negative for HIV-1, HIV-2, HBV, and HCV by PCR
• Specific Staining	Positive for von Willebrand Factor Negative for smooth muscle alpha actin

PART NUMBER	DESCRIPTION
FC-0042	HD-MVECn, Human Dermal Microvascular Endothelial Cells, Neonatal – 500,000 cells per vial
LL-0004	VascuLife® EnGS-Mv Medium Complete Kit (VascuLife Basal Medium, VascuLife EnGS-Mv LifeFactors® Kit)
LL-0005	VascuLife VEGF-Mv Medium Complete Kit (VascuLife Basal Medium, VascuLife VEGF-Mv LifeFactors Kit)
CM-0004	Gelatin Solution [0.1%]
LS-1104	GA Antimicrobial Supplement, 0.5 mL (Gentamicin 30 mg/mL, Amphotericin B 15 µg/mL); provided with purchase of LL-0004 or LL-0005

To place an order, please visit lifelinecelltech.com or call technical and customer service at 877.845.7787.

Lifeline's Normal Human Dermal Microvascular Endothelial Cells-Neonatal

Lifeline's Normal Human Dermal Microvascular Endothelial Cells-Neonatal (HD-MVECn), when grown in Lifeline's Vasculife® Medium, provide an ideal culture model, with or without human VEGF, for the study of angiogenesis, atherosclerosis, or vascular biology.

Lifeline's HD-MVECn are isolated and quality tested in Vasculife EnGS-Mv Medium to ensure optimal growth over a period of at least 15 population doublings while remaining naïve to VEGF.

Lifeline's HD-MVECn are not exposed to antimicrobials or phenol red when cultured in the respective Lifeline® medium. Lifeline offers antimicrobials and phenol red; however they are not required for eukaryotic cell proliferation. A vial of Gentamicin and Amphotericin B (GA; LS-1104) is provided with the purchase of Vasculife EnGS-Mv (LL-0004), or Vasculife VEGF-Mv (LL-0005) Medium Complete Kits for your convenience. The use of GA is recommended to inhibit potential fungal or bacterial contamination of eukaryotic cell cultures. Phenol Red (LS-1009) may be purchased, but is not required.

Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates extensive quality assurance in every production run. Exacting standards and production procedures ensure consistent performance.

The Lifeline Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. Upon request, Lifeline will provide lot specific QC test results, material safety data sheets, and certificates of analysis. See complete guarantee/warranty statement at lifelinecelltech.com or contact your Lifeline representative for more information.

All donated tissues have been obtained under proper informed consent and adheres to the Declaration of Helsinki, The Human Tissue Act (UK), CFR Title 21, and HIPAA Regulations relative to obtaining and handling human tissue for Research Use.

Safety Statement

This product is for Research Use Only. This product is not approved for human or veterinary use or for use in *in vitro* diagnostics or clinical procedures.

Lifeline recommends storing cryopreserved vials in liquid nitrogen vapor phase. Handle cryopreserved vials with caution. Always wear eye protection and gloves when working with cell cultures. Aseptically vent any liquid nitrogen from cryopreserved vials by carefully loosening the vial cap in a biosafety cabinet prior to thawing the vials in a water bath. If vials must be stored in liquid phase, the vials should be transferred to vapor phase storage or -80°C for up to 24 hours prior to being thawed.

Call Lifeline Technical Service and Sales at 877.845.7787
or visit lifelinecelltech.com for more information

Lifeline Cell Technology – 8415 Progress Drive, Suite T – Frederick, MD 21701

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