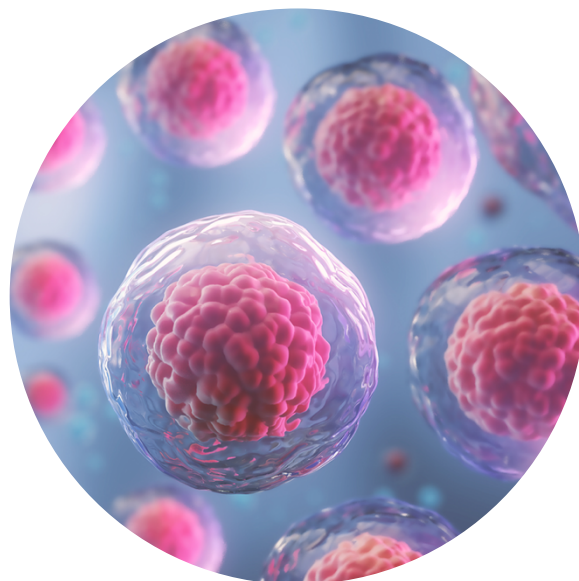


# Human Female Reproductive Cell Systems

FC-0078    FC-0081  
FC-0083  
FC-0080



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.

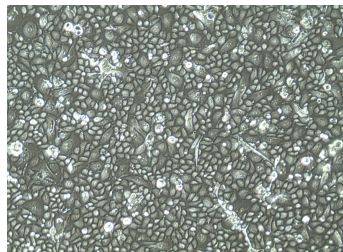


**LIFELINE**<sup>®</sup>  
CELL TECHNOLOGY

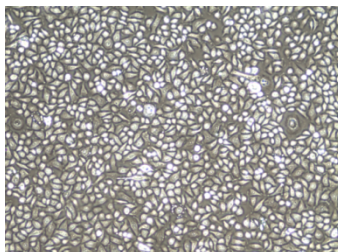
Better Solutions for  
Breakthrough Results

Human Endometrial Epithelial Cells (HEuEC)  
Human Fallopian Tube Epithelial Cells (HFTEC)

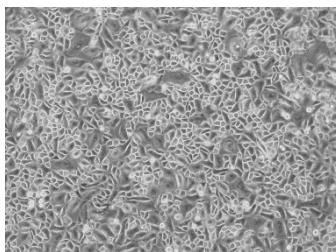
Human Cervical Epithelial Cells (HCxEC)  
Human Vaginal Epithelial Cells (HVEC)



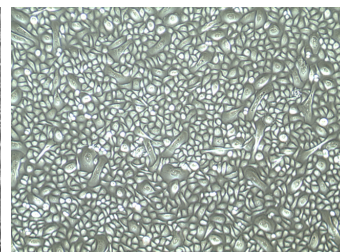
*HEuEC, passage 4, 7 days after inoculation with 6,150 cells/cm<sup>2</sup> (100X).*



*HCxEC, passage 4, 5 days after inoculation with 5,000 cells/cm<sup>2</sup> (100X).*



*HFTEC, passage 4, 5 days after inoculation with 5,000 cells/cm<sup>2</sup> (100X).*



*HVEC, passage 4, 5 days after inoculation with 7,950 cells/cm<sup>2</sup> (100X).*

| CELL FEATURES:   | ISOLATED FROM:                         | CRYOPRESERVED AT THE END OF: |
|--|--|------------------------------|
| • HEuEC  | • Endometrial layer of the uterus      | • Tertiary Culture*          |
| • HCxEC  | • Cervix                               | • Tertiary Culture*          |
| • HFTEC  | • Fallopian Tubes (full length)        | • Tertiary Culture*          |
| • HVEC   | • Luminal surface of the vaginal canal | • Tertiary Culture*          |
| • HEuEC, HCxEC, HFTEC, and HVEC provide an ideal model for the study of female reproductive tract cancer development, the cellular response to infectious agents, among other areas of research. |  |                              |
| • HEuEC, HCxEC, HFTEC, and HVEC are extensively tested for quality and optimal performance.  |  |                              |
| • HFTEC have been characterized by FACS as dominantly positive for Cytokeratin-8/18.   |  |                              |
| • HFTEC's normal morphology has been characterized as mixed cuboidal and elongated, clonal.  |  |                              |
| • Lifeline guarantees performance and quality.   |  |                              |

#### HUMAN FEMALE REPRODUCTIVE EPITHELIAL CELLS ARE TESTED FOR:

|                              |  |
|------------------------------|--|
| Cell Count                   | 500,000 cryopreserved cells per vial   |
| Proliferation and Morphology | Normal morphology for 5 population doublings for HEuEC and HFTEC<br>Normal morphology for 10 population doublings for HCxEC and HVEC |
| Cell Viability               | Minimum 70% viability when thawed from cryopreservation  |
| Sterility Testing            | Negative for mycoplasma<br>Negative for bacterial and fungal growth  |
| Virus Testing                | Negative for HIV-1, HIV-2, HBV, and HCV by PCR   |

| PART NUMBER             | DESCRIPTION  |
|-------------------------|--|
| <a href="#">FC-0078</a> | Normal Human Endometrial Epithelial Cells, Tertiary – 500,000 cells per vial   |
| <a href="#">FC-0083</a> | Normal Human Vaginal Epithelial Cells, Tertiary – 500,000 cells per vial   |
| <a href="#">LL-0068</a> | ReproLife™ Medium Complete Kit (ReproLife Basal Medium, ReproLife LifeFactors™ Kit)  |
| <a href="#">FC-0080</a> | Normal Human Cervical Epithelial Cells, Tertiary – 500,000 cells per vial  |
| <a href="#">FC-0081</a> | Normal Human Fallopian Tube Epithelial Cells, Tertiary – 500,000 cells per vial  |
| <a href="#">LL-0072</a> | ReproLife CX Medium Complete Kit (ReproLife CX Basal Medium, ReproLife CX LifeFactors Kit)                                       |
| <a href="#">LS-1104</a> | GA Antimicrobial Supplement, 0.5 mL (Gentamicin 30 mg/mL, Amphotericin B 15 µg/mL); provided with purchase of LL-0068 or LL-0072 |

### Lifeline's Normal Human Female Reproductive Epithelial Cells

Lifeline's HEuEC, HFTEC, and HVEC, when grown in ReproLife™ Medium, and HCxEC, when grown in ReproLife CX Medium, provide an ideal serum-free culture model for many areas of research. These cells may be used to study cellular physiology of the reproductive tract, female reproductive tract cancer development, the cellular response to infectious agents, and other areas of research.

Lifeline's HEuEC, HCxEC, HFTEC, and HVEC are cryopreserved as tertiary\* cells to ensure the highest viability and plating efficiency. Our HEuEC and HVEC are quality tested in ReproLife Medium to ensure optimal morphology and growth over a period of at least 5 population doublings for the HEuEC; and at least 10 population doublings for the HVEC. Our HCxEC and HFTEC are quality tested in ReproLife CX Medium to ensure optimal morphology and growth over a period of at least 10 and 5 population doublings, respectively.

Lifeline's HEuEC, HCxEC, HFTEC, and HVEC are not exposed to antimicrobials or phenol red when cultured in Lifeline's 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 ReproLife Medium Complete Kit (LL-0068) or ReproLife CX Medium Complete Kit (LL-0072) 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](http://lifelinecelltech.com) or contact your Lifeline representative for more information.



Call Lifeline Technical Service and Sales at **877.845.7787**

Or visit **[lifelinecelltech.com](http://lifelinecelltech.com)** for more information

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

### Safety Statement

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.

*\*Lifeline Technical Note: There are different and often contradictory terminologies used by cell culture companies to define the passage number of cells. Lifeline's designation of 'primary cells' are cells that have been isolated from tissue, plated onto culture vessels, expanded, harvested and cryopreserved. The term 'tertiary' indicates that the cells have been isolated, plated and expanded in culture vessels three times before being harvested for cryopreservation.*



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