

Primary Breast Cancer Epithelial Cells

Primary cells for the study for tumor growth, angiogenesis and metastasis

Introduction

Epithelial cells grow as tightly packed cuboidal shaped cells. They form the lining of the surfaces of organs and vessels of the body and are associated with forming a barrier and can also play a role in absorption and secretion dependent on their tissue of origin. Epithelial cells are isolated from freshly resected tumor, as well as epithelial cells from the normal tissue adjacent to the tumor. Cells are cryopreserved after a limited number of passages and are provided as frozen ampoules.

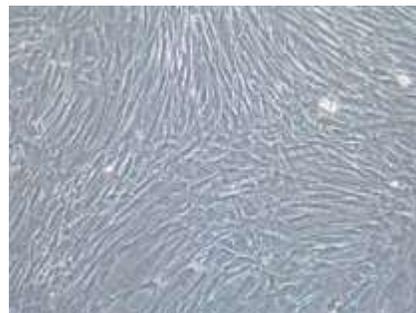


Figure 1. DT01054, 100X magnification, phase contrast

Required Materials for Propagation

- ✓ MEGM BulletKit (Lonza CC-3150)
- ✓ TrypLE Express (Gibco 12605010) or Trypsin/EDTA
- ✓ Hank's Balanced Salt Solution without calcium or magnesium (or equivalent)

Characterization of Cells

Primary Breast Cancer Epithelial Cells are characterized over serial passages which includes morphological observations and photographic documentation. Fixed cells and/or resection tissue from each lot are stained for cytokeratin, vimentin, HER2, estrogen receptor and progesterone receptor.

Performance

Recommended seeding density for subculture is listed in table 1. Typical time from subculture to confluent monolayer: 6 - 9 days. Consult the Certificate of Analysis for each Primary Cell lot number for specific growth conditions, as these may vary.

Table 1. Cell seeding volume

Flask	Media Volume	Total # Cells
T-25	5ml	1x10 ⁶
T-75	15ml	3x10 ⁶

Quality Control

As a part of our strict quality control measures, Primary Cell lots are independently tested for HIV-1, HIV-2, HAV, HBV, HCV, and *mycoplasma spp.* Each Primary Cell lot is screened for bacteria, yeast, and fungi. Each lot's viability, morphology, and growth potential are measured post cryopreservation. Certificates of Analysis (COA) for each lot are provided on the opposite side of this page. COAs from all other products are provided upon request.

Product Warranty

ALL CULTURES HAVE A FINITE LIFESPAN *IN VITRO*. BioIVT makes no guarantees, expressed or implied, as to the performance of its cells if the recommended reagents and protocols are not used exclusively. Cryopreserved Primary Breast Cancer Epithelial Cells are assured to be viable and functional when stored, thawed, grown and maintained as directed. A maximum lifespan cannot be guaranteed.

FOR RESEARCH USE ONLY. NOT FOR THERAPUTIC USE. BIOHAZARD –USE UNIVERSAL PRECAUTIONS. PRIMARY CELLS ARE PRODUCTS OF HUMAN ORIGIN.

Each donor is tested and found non-reactive by an FDA approved method for the presence of HIV-1, HIV-2, HAV, HBV and HCV. BioIVT does not test for all possible pathogens. Products of human origin should be handled at a minimum Biological Safety Level 1 to mitigate the exposure to potentially infectious material. If you require further information, please contact your site's Safety Officer, or contact Customer Support.



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