Cat. No. LE-HD-083

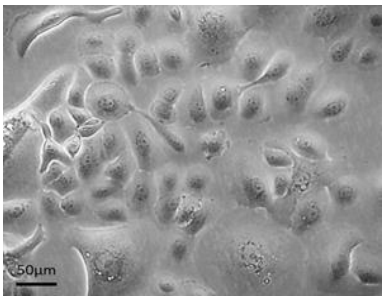
Human Primary Lung Epithelial Cells - Cystic Fibrosis

Human primary cells expressing a cystic fibrosis phenotype with application in cell-based screening and life science research

The primary cell isolate was prepared from human tissue obtained with full ethical permission. Cells were isolated by enzymatic digestion and cultured in optimal conditions for epithelial growth. Cells were banked and cryopreserved under liquid nitrogen after no more than 3 population doublings. The cell population was analysed by fluorescence-activated cell sorting (FACS) and immunocytochemistry.

DONOR TISSUE FEATURES

- Male donor, 39 years
- Airway, bronchi (Cystic Fibrosis)
- Additional donor history available on request



Cell morphology. Cells in culture were photographed using a phase contrast microscope. (Magnification: 10X)

CELL CHARACTERISTICS

Batch number:	17-2403
Vial content:	$0.5x10^6$ cells
Appearance:	Flat cells with central nuclei
Seeding density:	5000-6000 cells/cm^2
Culture medium:	BEGM (Lonza, recommended)
Recovery from frozen:	89%
Population doubling:	1-2 days
Mycoplasma test:	Negative (by luminescence-based mycoplasma assay)
Virus tests:	Negative for HIV1, HIV2, HAV, HBV, HCV, HTLV1, HTLV2 (by real time PCR screen)
Other tests:	Yeast, bacteria, fungus (Negative)

FLOW CYTOMETRY CELL ANALYSIS

Cell Marker	Target Description	Population Positive
Epi-CAM (CD326)	Epithelial marker	73.1%*
E-Cadherin	Epithelial marker	59.2%*

IMMUNOFLUORESCENT MICROSCOPY CELL ANALYSIS

CFTR	Cystic fibrosis transmembrane conductance regulator	Positive

* Percentage of cells with fluorescence greater than the isotype control background

USES AND RESTRICTIONS

- Store at -150°C. Once thawed do not re-freeze
- For research use ONLY — not suitable for *in vitro* diagnostic use or human or animal treatment
- Potential biohazard — handle with care

Leaders in Cell Culture

AvantiCell Science Limited GibbsYard Building Auchincruive Ayr KA6 5HW Scotland UK
t: +44 (0) 1292 521060 f: +44 (0) 1292 521610 e: info@avanticell.com www.avanticell.com

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