Cat. No. LE-HN-081

Human Airway Epithelial Cells - Primary Bronchi

A primary cell isolate with application in cell-based screening and life science research

PRODUCT OVERVIEW

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. The cell population was analysed by fluorescence-activated flow cytometry.

TISSUE FEATURES

- Male donor, Caucasian, 44 years
- Airway primary bronchi

CELL CHARACTERISTICS

Batch number:	12-1611B
Mycoplasma test:	Negative (by PCR-based assay)
Virus tests:	HIV1, HIV2, HBV, HCV, HTLV1, HTLV2 (Serology screening)
Other tests:	Fungus, yeast (negative)
Passage:	P+2
Population doubling:	2 days
Appearance:	Rounded flat cells with central nuclei
Culture medium:	BEGM (Lonza)
Surface coating:	Human type IV collagen
Seeding density:	5,000-6,000 cells/cm^2
Recovery from frozen:	82% viability

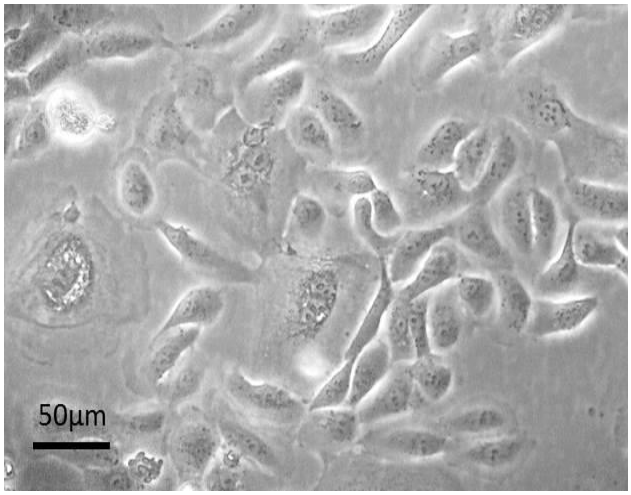

Figure 1

Cell morphology. Cells in culture were photographed using a phase contrast microscope. (Bar 50 µm)

FACS CELL ANALYSIS

Cell Marker	Target Description	Population (Positive)[a]
Epi-CAM (CD326)	Epithelial marker	97.3%
E-Cadherin	Epithelial marker	59.9%

[a] Percentage of cells with fluorescence greater than the isotype control background

USES AND RESTRICTIONS

- Further expansion potential for up to 3 population doublings
- 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

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