

## Human Primary Airway Epithelial Cells - Trachea

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, 38 years
- Airway trachea

### CELL CHARACTERISTICS

Batch number:	12-1611(T)
Mycoplasma test:	Negative (by PCR-based assay)
Virus tests:	HIV1, HIV2, HBV, HCV, HTLV1, HTLV2 (serology screening)
Other tests:	Fungus, yeast (negative)
Passage:	P+1
Doubling time:	2 days
Appearance:	Flat cells with central nuclei
Culture medium:	BEGM (Lonza)
Surface coating:	Human type IV collagen
Seeding density:	5,000-6,000 cells/cm <sup>2</sup>
Recovery from frozen:	91% viability

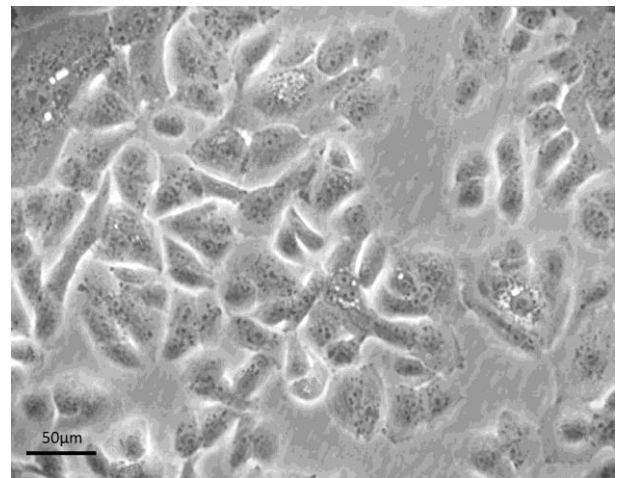


 Figure 1

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

### FLOW CYTOMETRY CELL ANALYSIS

Cell Marker	Target Description	Population (Positive) <sup>a</sup>
Epi-CAM (CD326)	Epithelial marker	96 %
E-Cadherin	Epithelial marker	76.4%

<sup>a</sup> 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