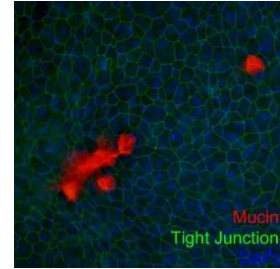
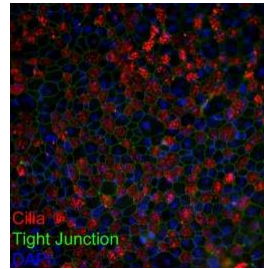
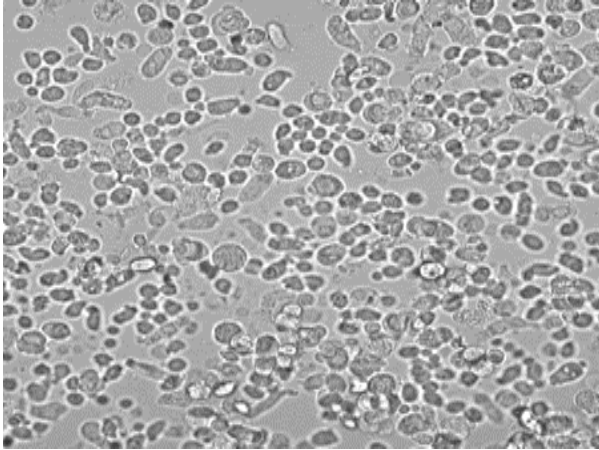




Novabiosis Proliferating Normal Human Bronchial Epithelial Cells-P0 (NhBE-P0)



Advantages

- **Convenience:** P0 cells can be grown with any method amenable to expansion of primary airway epithelia.
- **High purity and low passage**
- **Access to high quality non-transplantable organs**
- **More extensive donor information**

Applications

- perfect source for single-cell analysis from individual donors.
- investigating the function and pathology of the respiratory system.
- drug discovery cell screening for in vitro assay of compounds
- 3D tissue model
- gene expression
- cell Based Assays
- among many others

Donor information including: cause of death, age, gender, race, BMI, diabetic status, smoking history, alcohol use, substance use, HLA typing, serology and culture results, and co-morbidities, if any, is also included on the CoA.

Serology results include (positive or negative): CMV, EBV, Toxo, HBV, HCV, HIV-1, HIV-2. Additional serology results may be provided upon request.

Culture results include (positive or negative): Gram +, Gram -, Mycoplasma, Fungi.

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are isolated from the bronchus at the bifurcation point to the fourth generation of bronchi. The cell composition consists of differentiated ciliated, non-ciliated, goblet, and basal cells.

QC Testing

NhBE-P0 cells have been characterized and Air/Liquid Interface culture (ALI) validated by immunofluorescence using protein markers for Cilia (acetylated tubulin), mucin (MUC5AC), tight junctions (Zonula Occludens-1), and basal cells (cytokeratin-5). The NhBE-P0 cells are guaranteed to have minimum population doublings of at least 20 (from P0 to P2) following the instructions and conditions provided by Novabiosis. Average population doubling time 40 ± 5 hours (P1-P2). Transepithelial resistance at 21 days ALI, typically range from 500 to 2000 Ω (P0 cells starting material, 12mm). Percent ciliated cells at 21 days ALI, typically >50% at P1 (P0 cells starting material). Each lot is guaranteed to contain a minimum of 500k cells per vial. All the lot-specific information will be reported on the Certificate of Analysis (CoA).



Catalog Information and Related Products

Normal Human Bronchial Epithelial Cells-P0 (NhBE -P0)

- Cat. # 1001

Novabiosis Air Liquid Interface Differentiation Media

(ALI-DM), 250mL

- Cat. # 2001

Product Storage and Warranty

CULTURES HAVE A LIMITED LIFESPAN *IN VITRO*.

Upon receipt, immediately store cryovial(s) in vapor phase liquid nitrogen.

Cryopreserved human lung cells are viable for at least 2 years when stored under these conditions.

Novabiosis guarantees the performance of its cells only if following Novabiosis-specific instructions exclusively and the recommended products and protocols are used and followed.

The performance of the cells is not guaranteed if any modifications are made.

THESE PRODUCTS ARE FOR RESEARCH USE ONLY.