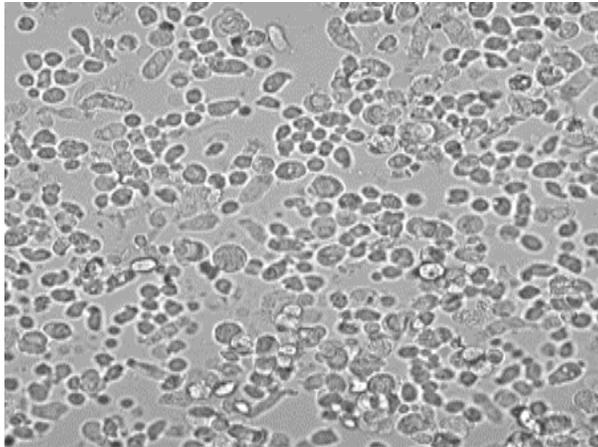




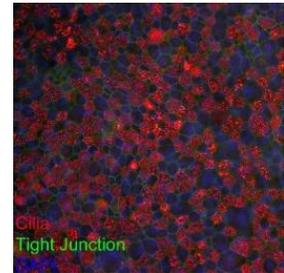
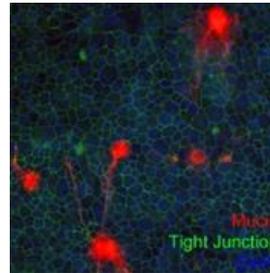
Novabiosis Proliferating Normal Human Small Airway Epithelial Cells-P0 (NhSAE-P0)



Proliferating Normal Human Small Airway Epithelial Cells- P0 (NhSAE-P0) are isolated from the fifth generation of bronchi down to small airways near 1mm in diameter. The cell composition consists of undifferentiated ciliated, non-ciliated, goblet, and basal cells

QC Testing

NhSAE-P0 cells have been characterized and Air/Liquid Interface culture (ALI) validated by immunofluorescence using protein markers for Cilia (acetylated tubulin), mucin (MUC5AC), and tight junctions (Zonula Occludens-1). The NhSAE-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. Attachment from P0 thaw, typically 20-30% of initial count. 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. 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).



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

- NhSAE-P0 cells can be used as a source for repeated differentiated cell stocks useful for any analysis procedure typically performed with freshly isolated cells derived from ex vivo tissue.
- perfect source for single-cell analysis from individual donors.
- investigating the function and pathology of the respiratory system.
- 3D tissue model
- gene expression
- cell Based Assays
- allow a researcher to perform FACS analysis of the diverse population of epithelial cells found within the tracheal cell composition.
- 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.



Catalog Information and Related Products

Normal Human Small Airway Epithelial Cells-P0 (NhSAE - P0)

- Cat. # 1003

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.