

## Products

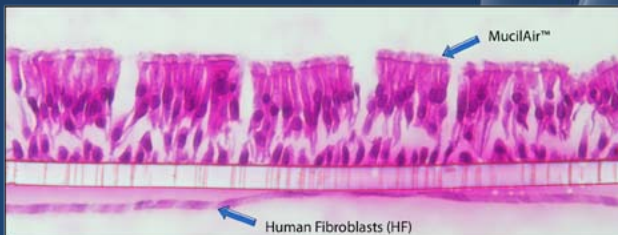
«**MucilAir™** tissues can be kept in culture for more than 12 months, allowing long-term and/or repeat toxicity and efficacy studies *in vitro*»

Epithelix has developed, provides and sells unique and robust 3D Human Airway Epithelia reconstituted *in vitro* (**MucilAir™**):

- Made of **primary human respiratory cells** (nasal, tracheal or bronchial)
- Cultured at **air-liquid Interface**
- **Mimics the *in vivo* tissue** of the human respiratory epithelium :
  - Basal, goblet, ciliated cells, mucus, tight junctions
  - Cilia beating
  - Active ion transport
  - Metabolic activity / detoxification (CYP450)
  - Cytokine / chemokine / metalloproteinase release, etc.
- Remains fully differentiated and functional for **more than one year**
- **Several pathologies available** (Asthma, COPD, Smoker, Allergic Rhinitis, CF, etc.)
- Very high batch to batch **reproducibility**
- **Ready and easy to use**
- **Worldwide shipping** (EU / US / Asia-Pacific)
- **Quality control** performed on every tissue produced
- **No delivery delay** - Continuous Production

### Others Respiratory Products available :

- **MucilAir™-HF** : MucilAir™ co-cultured with Human airway Fibroblasts (HF)



- Low passage cryopreserved primary human fibroblasts and epithelial cells of nasal, tracheal or bronchial origin
- Culture media
- Cells & Tissues extracts (RNA, mucin, protein lysate)

## Testing Services

«Use our Innovative Testing Strategies in your laboratories or contract us to perform your *in vitro* studies»

Based on **MucilAir™**, Epithelix offers innovative testing strategies to **Research Laboratories, Personal Care, Chemical and Pharmaceutical Industry**

- Exposure of inhaled compounds (solids, liquids, gases, nanomaterials)
- Evaluation of Aerosols - Sprays
- Bacterial and viral infection studies
- Cigarette smoke and airborne pollutants testing
- Evaluation of the efficacy and safety of drugs for asthma, CF, COPD, flu, etc.
- Drug formulation testing
- Mucolytic activity testing
- Fundamental Research, etc.

«Relevant, Reproducible and Reliable»

Contract us to perform the following **Acute, Long-term** and **Chronic** *in vitro* studies :

- Toxicity of inhaled products
- Absorption of inhaled compounds
- Intranasal / Intrabronchial drug delivery
- Pro or anti-inflammatory reactions
- Airway remodeling and metaplasia
- Mucociliary clearance and ciliogenesis
- Mucus secretion
- Electrophysiology and activity of ion channels
- Customized services

For more information about our products and services, please contact us :  
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