

Human Primary Lung Fibroblast Cells – Idiopathic Pulmonary Fibrosis

Human primary cells expressing an idiopathic pulmonary fibrosis (IPF) phenotype with application in cell-based screening and life science research

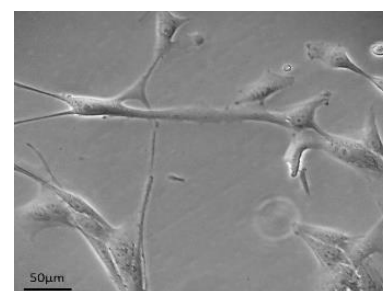
The primary cell isolate was prepared from human tissue obtained with full ethical permission. Tissue was dissected and dissociated by proteolytic digestion. A fibroblast population was isolated using FSP-1 immunomagnetic selection and propagated in customised fibroblast culture medium. Cells were banked by cryopreservation under liquid nitrogen. The cell population was analysed by fluorescence-activated flow cytometry.

DONOR TISSUE FEATURES

- Male donor, 61 years
- Airway bronchial tree, IPF

CELL CHARACTERISTICS

| | |
|-----------------------|---|
| Batch number: | 15-0705 |
| Vial content: | 0.5x10 ⁶ cells |
| Appearance: | Elongated spindle shaped cells |
| Seeding density: | 3,000 – 4,000 cells/cm ² |
| Population doubling: | 2 days |
| Culture medium: | AvantiCell medium (LF-HDM-01) recommended |
| Recovery from frozen: | >90% viability |
| Mycoplasma test: | Negative (by ELISA mycoplasma assay) |
| Virus tests: | HIV1, HIV2, HAV, HBV, HCV, HTLV1, HTLV2 (negative by real time PCR screen) |
| Other tests: | Fungus, yeast (Negative) |



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

FLOW CYTOMETRY CELL ANALYSIS

| Cell Marker | Target Description | Population Positive* |
|----------------------|--------------------------------|----------------------|
| Exto-5' nucleotidase | Interstitial fibroblast marker | 99.46% |
| αSMA | Myofibroblast marker | 83.45% |

*Percentage of cells with fluorescence greater than the isotype control background

USES AND RESTRICTIONS

- Store at -150°C. Once thawed do not re-freeze
- 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