

## Human Primary Lung Fibroblasts - Idiopathic Pulmonary Fibrosis

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

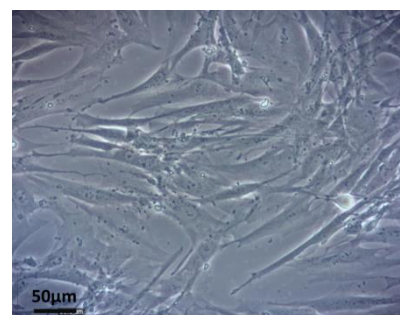
The primary cell isolate was prepared from tissue obtained with full ethical permission. Tissue was dissected and dissociated by proteolytic digestion. A fibroblast population was isolated using FSP-1 immunomagnetic selection and propagated in customised fibroblast culture medium. Cells were banked, cryopreserved and stored at -150°C. Cell population analysis was performed by fluorescence-activated flow cytometry.

### DONOR TISSUE FEATURES

- Female donor, 64 years
- Airway bronchial tree, IPF diagnosed
- Additional donor history available on request

### CELL CHARACTERISTICS

Batch number:	15-1305
Vial content:	0.5x10 <sup>6</sup>
Appearance:	Elongated spindle shaped cells
Seeding density:	3,000 - 4,000 cells/cm <sup>2</sup>
Population doubling:	2-3 days
Culture medium:	AvantiCell medium (LF-HDM-01) recommended
Recovery from frozen:	99%
Mycoplasma test:	Negative (by real-time PCR)
Virus tests:	Negative for HIV1, HIV2, HBV, HCV (by real-time PCR)
Other tests:	Negative for fungus, yeast, bacteria



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

### FLOW CYTOMETRY CELL ANALYSIS

Cell Marker	Target Description	Population Positive*
Exto-5' nucleotidase	Interstitial fibroblast marker	99.48%
αSMA	Myofibroblast marker	51.01%

\*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