

Human Primary Pulmonary Arterial Fibroblasts

A primary cell isolate with application in cell-based screening and life science research

The primary cell isolate was prepared from human tissue obtained with full ethical permission. Human pulmonary artery was treated enzymatically and the collected cells were characterized by flow cytometric analysis of cell markers. Fibroblasts were further selected using FSP-1 labelled immuno-magnetic beads and the harvested fibroblast cell population was grown in medium optimized for primary human pulmonary arterial fibroblasts. Cells were banked by cryopreservation under liquid nitrogen.

DONOR TISSUE FEATURES

- Male donor, 38 years
- Additional donor history available on request

CELL CHARACTERISTICS

Batch number:	12-1611
Vial content:	0.5x10 ⁶ cells
Appearance:	Monolayer of fibroblast shaped cells
Seeding density:	6,000 cells/cm ²
Culture medium:	AvantiCell medium recommended (AF-HNM-01)
Recovery from frozen:	80%
Doubling time:	5 days
Mycoplasma test:	Negative (by real-time PCR)
Virus tests:	Negative for HIV-1, HIV-2, HBV, HCV, STS, positive for EBV, CMV (by serology screen)
Other tests:	Negative for yeast, fungus and bacteria



Cell morphology. Cells in culture were photographed using a phase contrast microscope. (Magnification 10x)

FLOW CYTOMETRY CELL ANALYSIS

Cell Marker	Target Description	Population Positive*
Exo-5' nucleotidase	Intestinal fibroblast marker	97.13%
Alpha SMA	Myofibroblast marker	80.48%

*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