INBIOBANK www.inbiobank.org
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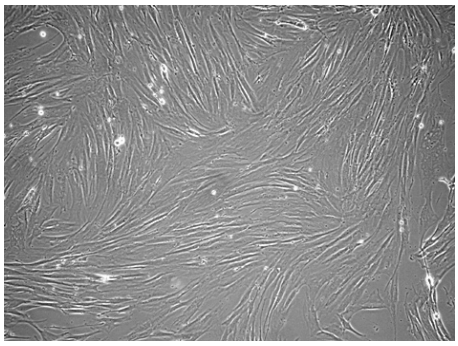
PRIMARY HUMAN FIBROBLASTS

Processed directly from adult human skin (from healthy donors) and expanded *in vitro* for a maximum of three passages [1, 2]. Cells are supplied in 2 ml cryotubes containing **1 million** cells in 1 ml FBS (v/v) dimethylsulphoxide (DMSO).



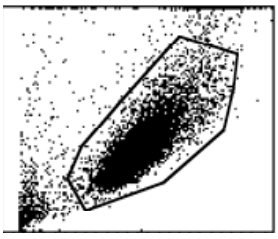
Quality Controls

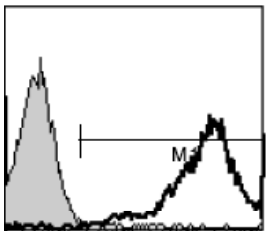
All cells have been processed in INBIOBANK by manufacturing procedures based on ISO9001:2000 standards. These cells have tested negative for the following pathogens: HIV-1/2, Hepatitis B/C (Abbot Prism Chemiluminiscence Assay) and Mycoplasma (PCR Kit).

Cellular morphology and viability have also been tested after recovery from criopreservation.

Cell characterisation

Human fibroblasts are characterised morphologically through serial passage, and each batch is tested for expresion of vimentin (fibroblast marker).





SO702F1

Age: 39 YEARS OLD
Sex: FEMALE

Filled area: "ISOTYPIC CONTROL"
Empty area: "SPECIFIC CD"

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Instructions for use

Storage:

- The cells may be supplied criopreserved in dry ice. When received, liquid nitrogen storage is recommended until use.

Cell thawing:

- Transfer to 37ºC water bath.
- Gently agitate the vial while holding the tip with a forceps, being careful not to allow water to penetrate the cap or seal.
- Quickly sterilize vial with 70% ethanol and transfer to a laminar flow hood. Add 10ml warm complete media to a 15ml tube. When completely thawed, slowly transfer contents of vial to 15ml test tube and spin at 300g for 5min.
- Remove and discard the medium and resuspend in fresh culture medium.

Plating and passaging of fibroblast cultures.

- INBIOBANK recommends to plate a density of 90,000 cells/cm^2 for human fibroblasts
- Fibroblast cultures should be fed every 2-3 days after plating. To feed the cultures, gently remove the medium from the well and replace with an equal volume of temperature equilibrated fresh medium.
- The fibroblasts should be subcultured when they are approximately 90% confluent.

Warning

FOR RESEARCH USE ONLY. Not for use in clinical or veterinary assays, transplants or *in vitro* diagnostic procedures.

Culture media.

- Use High-Glucose DMEM (Dulbecco´s modified eagle´s medium) supplemented with 10% Foetal Bovine Serum. End users should test a specific batch of serum for optimum growth of these cells.

References

1. Puck, T.T., S.J. Cieciura, and H.W. Fisher, *Clonal growth in vitro of human cells with fibroblastic morphology; comparison of growth and genetic characteristics of single epithelioid and fibroblast-like cells from a variety of human organs*. J. Exp. Med., 1957. **106**(1): p. 145-58.
2. Zitcer, E.M. and P.L. Kirk, *The effect of serum ultrafiltrate on cultivated mast cells and fibroblasts from human skin*. Science, 1954. **119**(3081): p. 99.