

## Fibroblasts

### Instruction Manual

Product	Size	Catalog Number
Normal Human Dermal Fibroblasts (NHDF) juvenile foreskin	500,000 cryo-preserved cells 500,000 proliferating cells	NHDF-JF-500 cryo NHDF-JF-500 pro
Normal Human Dermal Fibroblasts (NHDF) adult donor	500,000 cryo-preserved cells 500,000 proliferating cells	NHDF-AD-500 cryo NHDF-AD-500 pro

#### Product description

Normal human dermal fibroblasts are isolated from the dermis of juvenile foreskin or adult skin from different locations like face, breasts or abdomen. Human fibroblasts are cryo-preserved at passage 1 (P1). Each vial contains more than 500.000 viable cells after thawing. Proliferating cell cultures are made from cryo-preserved cells, which have been thawed and cultured at PRIMACYT.

#### Quality control

Several quality control tests are performed for each lot of human fibroblasts. The cells are tested for cell morphology, viability and adherence rate. In addition, an immunological test of the fibroblast specific antigen CD90 is performed. Growth performance is tested for multiple passages up to 10 or 15 population doublings. Adult donors have been tested for absence of HIV-1, HBV and HCV. A detailed certificate of analysis (CoA) for each lot is made available by PRIMACYT.

#### Intended use

Our Products are for in vitro research only and not for diagnostic or therapeutic purposes.

#### Warning

Although tested negative for HIV-1, HBV, and HCV, the cells should be handled like all products of human origin as potentially infectious. No test procedure can completely guarantee the absence of infectious agents.

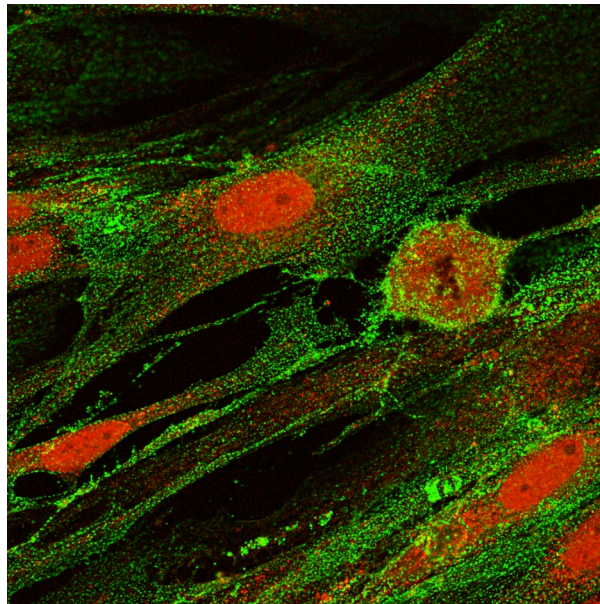


Fig. 1: Normal Human Dermal Fibroblast culture stained for fibroblast specific surface antigen CD90. Nuclei stained for CREB binding protein. Fibroblasts derived from juvenile foreskin, passage 4. Antibodies: Mouse anti human CD90, Dylight 488 labeled goat anti mouse (green fluorescence), Rabbit anti human CBP (CREB binding protein), Santa Cruz CBP (A-22, # sc-369), and Cy5 labeled goat anti rabbit (red fluorescence).

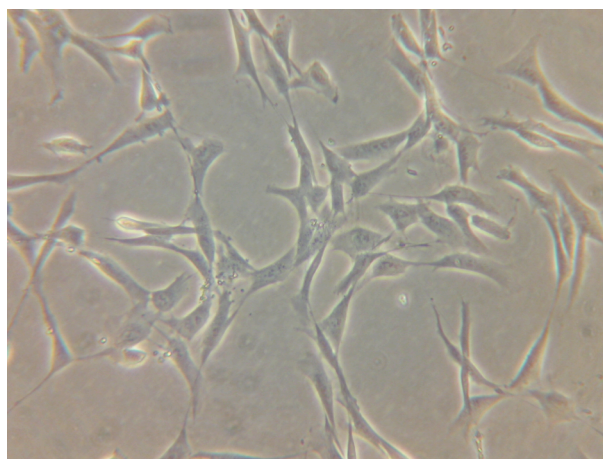


Fig. 2: Normal Human Dermal Fibroblast culture in phase contrast. Fibroblasts derived from juvenile foreskin, passage 1.

#### Recommended Culture Medium

FGM-500      Fibroblast Growth Medium