#### **Product sheet**



# Human Gingival Fibroblasts (hGF) | 300703

#### **General information**

**Description** Human gingival fibroblasts (hGFs) are undifferentiated cells with multi-differentiation and self-renewal

capacities. These mesenchymal cells provide many vital functions during development and adulthood. Thus, for instance they are responsible for a large part of the synthesis of the extracellular matrix in connective tissue and

play an important role in wound healing.

Organism Human

**Tissue** Gingiva

**Applications** Tissue regeneration, Wound healing studies

#### **Characteristics**

Cell type Fibroblast

Growth properties

Adherent

## **Identifiers / Biosafety / Citation**

**Citation** Human Gingival Fibroblasts (hGF) (CLS catalog number 300703)

#### **Expression / Mutation**

#### **Handling**

medium

Culture Medium	DMEM:Ham's F12
Medium supplements	5% FBS, 10 ng/ml bFGF, 10 microgram/L Insulin, w: 3.1 g/L Glucose, w: 1.6 mM L-Glutamine, w: 15 mM HEPES, w: 1.0 mM Sodium pyruvate, w: 1.2 g/L NaHCO3
Passaging solution	Accutase
Freeze	CM-1 (CLS catalog number 800100) or CM-ACF (CLS catalog number 806100)

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#### Handling of cryopreserved cultures

The cells come deep-frozen shipped on dry ice. Please make sure that the vial is still frozen. If immediate culturing is not intended, the cryovial must be stored below -150 degree Celsius after arrival. If immediate culturing is intended, please follow the below instructions: Quickly thaw by rapid agitation in a 37 degreeCelsius water bath within 40-60 seconds. The water bath should have clean water containing an antimicrobialagent. As soon as the sample has thawed, remove the cryovial from the water bath. A small ice clump shouldstill remain and the vial should still be cold. From now on, all operations should be carried out under asepticconditions. Transfer the cryovial to a sterile flow cabinet and wipe with 70% alcohol. Carefully open the vial andtransfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of culture medium (room temperature). Resuspend the cells carefully. Centrifuge at 300 x g for 3 min and discard the supernatant. The centrifugationstep may be omitted, but in this case the remains of the freeze medium have to be removed 24 hours later. Resuspend the cells carefully in 10 ml fresh cell culture medium and transfer them into two T25 cell cultureflasks. All further steps are described in the subculture section.

# Handling of proliferating cultures

One or two cell culture flasks come filled with cell culture medium. Collect the entire medium in 1 or 2 x 50 ml centrifuge tubes, respectively. Carefully add 5 ml of cell culture medium to each T25 cell culture flask. Control the cell morphology and confluency under the microscope. Incubate at 37 degree Celsius for a minimum of 24 hours. Spin down the collected medium at 300 x g for 3 minutes to collect the cells which may have detached during transit. If a cell pellet is visible, resuspend the cells in 5 ml of cell culture medium and transfer to a T25 cell culture flask. Incubate at 37 degree Celsius for a minimum of 24 hours.

### Quality control / Genetic profile / HLA