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Human Skin Fibroblasts, Neonatal

Species:	*Human*	Catalog Number:	PCSKH01
Cell Number:	~1x10^6	Shipping & Storage:	Dry ice

Introduction:

Skin fibroblasts are cells within the dermis layer of skin which are responsible for generating the extracellular matrix and the connective tissue of the skin. These cells play an important role in wound healing and skin recovery. Human neonatal skin fibroblasts from PrimCells, llc are prepared with the highest standard from foreskin tissue. They retain high proliferating capability and can be cultured for at least 20 doublelings. These cells are your ideal choice for skin related researches.

Thawing of Frozen Cells

1. Upon receipt of the frozen cells, it is recommended to thaw the cells and initiate the culture immediately in order to retain the highest cell viability.

2. To thaw the cells, put the vial in 37°C water bath with gentle agitation for ~1min. Keep the cap out of water to minimize the risk of contamination.

3. Pipette the cells into a 15ml conical tube with ~5ml fresh culture medium.

4. Centrifuge at 1000rpm (~220g) for 5min under room temp.

5. Remove the supernatant and resuspend the cells in fresh culture medium

6. Transfer the cells to a T75 tissue culture flask and move them to 37°C incubator (5% CO_2) for continuous culture.

Safety Precaution: *it is highly recommends that protective gloves and clothing should be used when handling frozen vials. It is important to note that occasionally some vials may explode due to the leak of liquid nitrogen during the freezing procedure.*

Standard Culture Procedure

1. Cells should be maintained in the complete culture medium until reaching ~80-90% confluence.

2. Remove the medium, wash once with sterile PBS (5ml/T75 flask).
3. Add ~2.5ml of 0.05% Trypsin-EDTA to the flask and incubate for 5min at 37°C.

4. Neutralize the enzyme activity by adding trypsin neutralizing solution or serum containing medium

5. Centrifuge 1000rpm (~220g) for 5min and resuspend the cells in desired volume of medium.

6. Transfer the cells to a new tissue culture treated flask for subculture. Note: It is recommended that cells are passaged at the ratio of 1:5.

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7. Culture medium should be refreshed every other day.

Complete Growth Medium

EMEM (Mediatech, Cat#10-009-CV): 425ml

FBS: 75ml

Total Volume: 500ml

Technical Support

For additional information regarding the product and technical questions, please contact Supports@PrimCells.com. You are guaranteed to receive a response within 24hrs from one of our scientists.

Disclaimers

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