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Human keratinocytes, dermis (HKER-D), vital

Cat.-No.: 111 0512 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HKER-D

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO_2 to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh keratinocyte growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO_2. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of HKER-D: **> 6,000 cells per cm²**

Description:

Following provitro's standard operating procedures, the HKER-D cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HKER-D:

Provitro's HKER-D cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HKER-D batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HKER-D cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:
Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.