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Rat Hair Follicle Data Sheet

Product name: Rat Hair Follicle

Catalog number: 55007-08

Description: Frozen Ampule $(1.2 \times 10^6 \text{ Cells})$ of $1 \times 10^6 \text{ Viable cell upon thawing, shipped with dry-ice.}$

Available in T25, T75, T150, and T225 tissue culture flasks with plated cells, shipped at room temperature. The Rat Hair Follicle was derived from Rat Frontal region Scalp extracted from Hair Follicle bulge. They were maintained in Celprogen's Rat Hair Follicle Complete Growth Medium

and sub-cultured every 24 to

48 hours on Rat Hair Follicle Extra-cellular Matrix.

Source: Rat Frontal region Scalp extracted from Hair Follicle bulge

Mycoplasma test: Negative-PCR and mycoplasma agar methods

Sterility: Negative for bacteria, yeast, and mold

Storage Conditions:

Frozen Vial: Liquid nitrogen vapor phase for frozen Ampule of Rat Hair Follicle.

Plated Cells: For plated cells in tissue culture flask, upon receipt of the cells wipe the flask with 70% ethanol and

transfer to sterile tissue culture hood. In the tissue culture hood remove the media from the cells and wash the cells with 1X PBS sterile solution, for 2-3 minutes, remove the 1X PBS solution and then Trypsinize. After Trypsinization of the Cells neutralize the Trypsin with equal volume of Rat Hair Follicle Complete Growth Media with Serum and collect the Cell suspension in sterile conical centrifuge tube in the tissue culture hood. Centrifuge the cell suspension at 100g for 7 minutes in centrifuge. Plate cells $5x10^5$ cells per pre-coated flasks with Rat Hair Follicle Extra-cellular Matrix

for Expansion in Rat Hair Follicle Complete Growth Medium.

Thawing of Cryovials: It is vital to thaw cells correctly in order to maintain the viability of the culture and enable the culture

to recover more quickly. Some cryoprotectants, such as DMSO, are toxic above 4°C therefore it is essential that cultures are thawed quickly (< 1 minute) and diluted in complete growth media with serum to minimize the toxic effects. Briefly, remove the cryovial containing the frozen cells from dry ice or from liquid nitrogen vapor phase, and immediately place in 37°C water bath or 37°C dry oven in a shaker. Quickly thaw the cell (< 1-2 minutes) by gently swirling the vial in the 37°C water bath or 37°C dry oven in a shaker, until there is just a small bit of ice left in the vial. Spray the vial with 70%

alcohol and transfer the thawed vial in the tissue culture hood. [See protocol for detail]



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Positive markers: bl-integrin, Keratin 15, Keratin 19, CD71, S100

Biosafety Level: 1

Morphology

& Proliferation: Mixed population of cells with approximately 95% attached cells and the other

5.0% in suspension, need to change cell culture media every day after 48 hours of initial cell culture or when the media starts changing color to slight yellow from pink. This is a fast growing cell culture (with a population doubling time of 24 hours). Change media with Celprogen's Rat Hair Follicle Complete Growth Medium with the appropriate Rat Hair Follicle Extra-cellular Matrix. Temperature 37^{0} C in 5% CO₂ humidified incubator. Population doubling is 80-120 or up

to 12 passages when cultured at 60% to 70% confluent in Celprogen Culture System.

Sub-culturing:

- 1. Thaw the vial with gentle agitation in a 37°C water bath or a dry 37°C shaking incubator. For water bath thawing keep the O-ring out of the water.
- 2. Remove the thawed vial and wipe with 70% ethanol. Then transfer to the tissue culture hood.
- 3. Transfer the vial contents to a sterile centrifuge tube, and gently add pre-warmed Rat Hair Follicle Complete Growth Media to the centrifuge tube. Use additional Rat Hair Follicle Complete Growth Media to rinse the vial and transfer the liquid to the centrifuge tube, repeat this once more to ensure you have all the cells transferred to the 15ml centrifuge tube. Centrifuge the cells at 100g for 7 minutes. Remove the supernatant and re-suspend the cell pellet in 500ul of Rat Hair Follicle Complete Growth Medium.
- 4. Add the 500ul of cells to flask pre-coated with Rat Hair Follicle Extra-cellular Matrix with 15ml of Rat Hair Follicle Complete Growth Medium.
- 5. Incubate the cells in the flask in a 37° C in 5% CO₂ humidified incubator. Perform 100% Media Change every 24 to 48 hours.
- 6. Medium renewal every other or 2-3 days, sub-culturing ratio: 1:2 or 1:3 depending on the cell density.

Refer to protocols, flow diagrams and videos for more detail: http://celprogen.com/tech.htm

Seeding cells from Plated Tissue culture flasks:

For plated cells in tissue culture flask, upon receipt of the cells wipe the flask with 70% ethanol and transfer to sterile tissue culture hood. In the tissue culture hood remove the media from the cells and wash the cells with 1X PBS sterile solution, for 2-3 minutes, remove the 1X PBS solution and then Trypsinize. After Trypsinization of the Cells neutralize the Trypsin with equal volume of Rat Hair Follicle Culture Complete Growth Media with Serum and collect the Cell suspension in sterile conical centrifuge tube in the tissue culture hood. Centrifuge the cell suspension at 100g for 7 minutes in centrifuge. Plate cells $5x10^5$ cells per pre-coated flasks with Rat Hair Follicle Culture Extra-cellular Matrix for Expansion in Rat Hair Follicle Culture Complete Growth Medium.



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Freezing Medium: Available for purchase Cat# M55007-08FM

Trypsin: Available for purchase Cat# T1509-014

Storage temperature: Liquid nitrogen vapor phase

Product Orders: Before submitting an order you will be asked to read and accept the terms and conditions of

Celprogen's Material Transfer Agreement (MTA).

Permits/Forms: In addition to the MTA mentioned above, other CELPROGEN and/or regulatory permits may be

required for the transfer of this CELPROGEN material. Anyone purchasing CELPROGEN

material is ultimately responsible for obtaining the permits.

Notices

& Disclaimers: CELPROGEN products are intended for laboratory research purposes only. They are not

intended for use in humans. The product is Rat Hair Follicle Cell Culture is established and manufactured by CELPROGEN Inc., and is for Research Use Only. This product is not for resale or may not be transferred to third party prior to written request and approval by CELPROGEN

Inc.