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DATA SHEET Human Nasal Epithelial Stem Cell - T25 Plated Cells

Catalog number: 36009-10-T25

Description:Human Nasal Epithelial Stem Cell T25 Plated Cells. Also available in T75, T150, and T225 tissue culture flask with plated cells, shipped at room temperature or in Frozen Vial, shipped in dry ice. The Clonal Human Nasal Epithelial Stem Cell was derived from Human Adult Nasal Septum tissue. They were maintained in Celprogen's Human Nasal Epithelial Stem Cell Complete Growth Medium and sub-cultured every 24 to 48 hours on Human Nasal Epithelial Stem Cell Extra-cellular Matrix.

Source: Human Adult Nasal Septum tissue

Donors: All donors from which the cells were derived were pre-screened; donors tested negative for the usual blood donation infectious disease panel ABO/RH, Hepatitis B Surface Antigen, HIV1 and 2, Syphilis, hepatitis B core, Human T Lymphocyte Virus 1 and 2, Hepatitis C Virus, Antibody Screen, Nucleic Amplification Test for HIV 1 HCV, West Nile Virus and Antibodies to Trypanosoma cruzi (the agent of Chagas disease).

Mycoplasma test: Negative-PCR and mycoplasma agar methods

Sterility: Negative for bacteria, yeast, and mold

Storage Conditions: Liquid nitrogen vapor phase for frozen Ampule of Human Nasal Epithelial Stem Cell . 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 Human Nasal Epithelial Stem Cell 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 Human Nasal Epithelial Stem Cell Extra-cellular Matrix for Expansion in Human Nasal Epithelial Stem Cell Complete Growth Medium.

Positive Markers: ESA, Nestin, CD117, Alkaline Phosphatase & CK19, NF

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. Fast growing cell culture, change media with Celprogen's Human Nasal Epithelial Stem Cell Complete Growth Medium with the appropriate Human Nasal Epithelial Stem Cell Extra-cellular Matrix. Temperature 37^oC in 5% CO₂ humidified incubator.

Sub-culturing:

1. Remove flask and wipe with 70% ethanol. Then transfer to the tissue culture hood. Refer to protocols, flow diagrams and videos for more detail.

2. Transfer the supernatant contents to a sterile centrifuge tubes, this will contain detached cells.Centrifuge at 100g for 7 minutes to obtain cell pellet. Plate cells in a T25 flask pre-coated with ECM.

3. Add pre-warmed Human Nasal Epithelial Stem Cell Growth Media to flask that has attached cells and incubate for two hours in the incubator. After 2 hours wash the cells with 1X PBS, remove 100% 1X PBS solution.

4. Trypsinize the attached cells with 3ml 1X Trypsin EDTA for 2-3 minutes. At the end of Trypsinization add equal volume of complete growth media with serum. Centrifuge the cells at100g for 7 minutes to obtain cell pellet.

5. Add the 500ul of cells to T25 flask pre-coated with Human Nasal Epithelial Stem Cell Extra-cellular Matrix with 7ml of Human Nasal Epithelial Stem Cell Complete Growth Medium. Depending on the size of the pellet you may utilize a new flask or you may combine the cells to the flask that had the supernatant cells.

6. Incubate the cells in the T25 flask at 37° C in a 5% CO₂ humidified incubator. Perform 100% Media Change



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every 24 to 48 hours.

7. Medium renewal every other day or 2-3 days, sub-culturing ratio: 1:2 or 1:3 depending on the cell density.
8. Refer to protocols, flow diagrams and videos for more detail. <u>http://celprogen.com/tech.htm</u>

Freezing Medium: Available for purchase Cat# M36009-10FM

Trypsin: Available for purchase Cat# T1509-014

IX PBS: Available for Purchase Cat# P1408-013

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.

Biosafety Level: 1

Notices & Disclaimers: *CELPROGEN products are intended for laboratory research purposes only.* They are not intended for use in Humans. The product, Human Nasal Epithelial Stem Cell, is established and manufactured by CELPROGEN Inc, and is for Research Use Only. This product is not for re-sale or may not be transferred to a third party prior to written request and approval by CELPROGEN Inc.