SOP: Propagation of AG09319

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Ordering Information

AG09319 may be ordered from Coriell Cell Repositories. Proliferating cells are shipped in a T25 flask with 50-60ml of media.

To order starter cultures:

Name/Catalogue #: AG09319 (Adult Gingival Fibroblast)

Notes:

This is a strain of dermal fibroblasts (adherent).

Materials List

- 1. Eagle's MEM with Earle's salts and L- Glutamine (Cellgro Cat# 10-010-CM)
- 2. Characterized Fetal Bovine Serum (HyClone Cat# SH30071)
- 3. Non-essential Amino Acids, 100X (Invitrogen Cat# 11140-050)
- 4. T225 culture flasks
- 5. Graduated pipets (1, 5, 10, 25, 50mL)
- 6. Penicillin-Streptomycin Solution, 200X (Cellgro Cat# 30-001-CI)
- 7. Phosphate Buffered Saline (1X PBS) (prepared from 10X stock Cellgro, Cat# 46-013-CM) by dilution with sterile deionized water)
- 8. Freezing medium (growth medium containing 6% DMSO)
- 9. DMSO, Hybri-Max (Sigma-Aldrich Cat# D2650)
- 10. Cryovials (Nunc Cat# 368632)
- 11. Accutase Enzyme Cell Detachment Medium (EBioscience, Cat# 00-4555)
- 12. Hemocytometer
- 13. Micropipet w/ P20 tips
- 14. Microscope

Growth Medium for AG09319

Eagle's MEM with Earle's salts and L-Glutamine 15% FBS

Non-essential Amino Acids (1X)

Pen-Strep (1X)

Procedure

A. Receipt of proliferating cells

- 1) Swab down outside of flask with 70% ethanol.
- 2) Equilibrate unopened T25 flask overnight in 37°C, 5% CO₂ humidified incubator to allow cells to recover.

B. Sub-culture

- 1) The next day after receipt, aspirate shipping medium and replace with fresh medium.
- 2) Propagate cells until density reaches 70-80% confluence.
- 3) Aspirate medium.
- 4) Wash cells with warm 1X PBS.
- 5) Add 10mLs of Accutase and return to incubator for 10-15 minutes or until cells detach.
- 6) Immediately remove cells, rinse flask with warm 1X PBS to collect residual cells, and pellet at 500 X g for 5 minutes (4°C).
- 7) Gently re-suspend cell pellet in warm medium.
- 8) Perform 1:5 cell split as needed. Record each subculture event as a passage

C. Maintenance and Generation of Seed Stocks

- 1) Change medium the day after seeding and every 2-3 days thereafter. Use \sim 50mL of medium per T225 flask.
- 2) Following first or second passage after receipt of cells and with sufficient number of cells to continue maintenance and expansion, a portion of the flasks should be sub-cultured using Accutase as above under "Sub-culture" and the cell pellet resuspended in freezing medium.
- 3) Cells are dispensed into cryovials (2 million cells per 1mL aliquot) and frozen in a -80°C isopropanol cryo-freezing container overnight.
 - 4) Cryovials are transferred the next day to liquid nitrogen freezer for long-term storage.

D. Harvest

- 1) Do not use cells that have been passaged more than 8 times.
- 2) Remove cells from flasks according to protocol described above under 'Sub-culture'.
- 3) Examine viability using Trypan blue staining (SOP TP-7).