Adipose-Derived Stem Cells – Female Rat

Product Description

Adipose-derived stem cells were isolated from a young adult (10 week) female Sprague Dawley rat. Cells were cultured in Cell Expansion Media (Minimum Essential Medium (MEM), Alpha 1X (Corning Cellgro; Catalog # 15-012-CV) with 1% MEM Nonessential Amino Acids (Corning Cellgro; Catalog # 25-025-Cl), 1% Corning glutagro Supplement (Corning; Catalog # 25-015-Cl), 1% Antibiotic-Antimycotic Solution (Anti-Anti (100X); gibco; Catalog # 15240-062), and 10% Hyclone Fetal Bovine Serum (Canada characterized FBS; (HyClone; Catalog # SH30396.03)). Cells were cultured in a cell culture incubator at 37°C with 5% CO_2, and were passaged (Passage 2 (P2)) for purity and cryopreserved. P2 cells can be expanded for a minimum of 5 passages.

ORDERING INFORMATION

Catalog Number: ADSC-RSF-01
Size: 1 x 10^6 cells/vial
Cell Type: Adipose-derived Stem Cell

Storage: Liquid Nitrogen

Cells Supplied

Adipose-derived stem cells from female rat. The package contains 1 x 10^6 cells/vial in 1 ml of Cell Expansion media with 40% FBS and 10% DMSO.

Storage

Store in liquid nitrogen up to 1 year.

Precautions

This product contains DMSO.

Thawing and Culturing Cells

1. Warm 10 ml of the Cell Expansion Media in a 15 ml tube in a 37 ^{o}C water bath
2. After removing the cryovial from the liquid nitrogen, warm it in a 37 ^{o}C water bath until it starts to thaw.
3. Wipe the outside of the vial with 70% ethanol and take the vial to a sterile cell culture hood.
4. Using a pipette, immediately add 1 ml of fresh pre-warmed Cell Expansion Media into the vial drop-by-drop by gently pipetting up and down.
5. As the cells thaw, transfer the cells into the rest of the pre-warmed Cell Expansion Media in the 15 ml tube.
6. Repeat this process until you get all the cells from the vial.
7. Centrifuge the tube at 500 x g for 5 minutes to pellet the cells.
8. Carefully remove the supernatant.
9. Re-suspend the cells in 12 ml of the pre-warmed Cell Expansion Media in a T75 flask.
10. Incubate at 37 ^{o}C in a cell culture incubator with 5% CO_2.
11. Replace medium after 24 hrs.
12. Passage the cells when >80% confluent.

Sub Culturing

1. Passage the cells when >80% confluent.
2. Warm the Cell Expansion Media and Mg^{2+}/Ca^{2+}-free Phosphate-Buffered Saline (PBS)
3. Carefully remove the media from the T75 flask containing the confluent layer of cells.
4. Wash the cells with 10 ml of pre-warmed PBS
5. Apply 2 ml of TrypLE Express (gibco; Catalog # 12604-021) and incubate for 2-5 minutes in a 37^{o}C cell culture incubator with 5% CO_2. Monitor cell detachment carefully to stop incubation.
6. Complete the cell detachment by gently tapping the side of the flask.
7. Add 10 ml of the pre-warmed Cell Expansion Media into the flask and transfer the content into a 15 ml sterile tube
8. Count the number of cells using a hemocytometer
9. Plate the cells at 5 x 10^5 cells in 12 ml of the expansion media in a T75 flask.
10. Incubate the cells at 37^{o}C in a cell culture incubator with 5% CO_2.
11. Change the media after 24 hours and continue growing until 80% confluent.

Warning

This product contains biological material and it has to be handled at Biosafety Level 2 or higher. Follow universal precautions.

This product is for R & D use only. Please consult the Safety Data Sheet for information regarding hazards and safe handling.

Warranty

This warranty limits our liability for replacement of this product. JangoBio provides no other warranties. JangoBio shall have no liability for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product.

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