AddexBio Research Technology, Services, and Products

Product Information Sheet for Addexbio

Cell Line Designation: SW480

AddexBio Catalog No. C0009001

Cell Line Description:

Disease: Colorectal adenocarcinoma

Species: Homo sapiens

Tissue: Colon

Properties: Adherent; epithelial

Complete Medium: Leibovitz's L-15 (C0006-01) + 10% FBS (The L-15 Medium is designed to use in a free gas exchange with atmospheric air. Please do not use 5% CO₂)

Subculture Procedure: 1:2 to 1:8 using 0.25% trypsin or trypsin/EDTA, 37°C

Medium Renewal: Three times a week.

Freezing Medium: Complete culture medium supplemented with 5% (v/v) DMSO

Additional Information: Additional product and technical information can be obtained from the catalog references and the Addexbio Technical Information site at www.addexbio.com, or by email at customersupport@addexbio.com.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. laboratory safety is discussed in the following publication: Biosafety in Microbiological and Biomedical Laboratories, 5th ed. HHS Publication No. (CDC) 93-8395. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. Washington DC: U.S. Government Printing Office; 2007. The entire text is also available online at www.cdc.gov/od/ohs/biosafty/bmbl4/bmbl4toc.htm

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Use Restrictions: These cells are distributed for research purposes only. Addexbio does not recommend third party distribution of this cell line, as this practice has resulted in the unintentional spreading of contaminated cell lines.

Handling Cells Upon Arrival:

Frozen cells must be thawed immediately upon receipt and grown according to the handling procedures described here in this instruction manual to ensure the best cell viability.

<u>Note</u>: **Avoid refreezing or repetitive freezing cells upon receipt** as it may result in irreversible damage to the cell line.

<u>Disclaimer</u>: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedures described in this instruction manual.

Handling Procedure for Frozen Cells:

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

Safety Precaution:

Addexbio highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

- 1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of water. Thawing should be rapid (approximately 2 minutes).
- 2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
- 3. (OPTIONAL) Transfer the vial contents to the centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125xg for 5 to 7 minutes.
- 4. Resuspend cell pellet with the recommended complete medium and dispense into a new culture flask. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel

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containing the complete growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0-7.6).

5. Incubate the culture at 37°C in a suitable incubator. An air atmosphere without CO₂ is recommended.

Handling Procedure for Cells in Flask Culture:

The flask was seeded with cells grown and completely filled with complete medium at AddexBio facility that acts as a cushion and to prevent loss of cells during shipping.

- 1. Upon receipt, carefully examine if the majority of the cells are attached to the bottom of the flask using an inverted microscope (preferably equipped with phase-contrast optics), as the cultures are sometimes handled roughly and many of the cells often detach and become suspended in the culture medium (but are still viable) during shipping. In addition, visually examine the culture for macroscopic evidence of any microbial contamination.
- 2. Spray lots of 70% Ethanol on the flask and the cap area. Carefully remove the parafilm and spray the cap area with ethanol again generously.
- 3. Place the flask erected on a flat surface inside of the biosafety cabinet.
- 4. Carefully unscrew the cap.
- 5. When preparing the cells for shipment, antibiotics were added to the medium.
- 6. It is recommended to culture the cells in antibiotics containing medium for the first week after arrival.
- 7. For the cells that are still attached, asceptically remove all but 10 ml of the shipping medium. The shipping medium can be saved for reuse. Incubate the cells at 37°C in an air atmosphere without CO₂ until they are ready to be subcultured.
- 8. **For the cells that are dettached**, in most of the case due to extended movement during shipment, cells detached from the flask. Asceptically remove the medium from the flask and centrifuge at 125 x g for 5 minutes. Remove shipping medium and save. Resuspend the pelleted cells in 10 ml of this medium and add to a new and sterile 25 cm² flask (T25). Incubate at 37°C in an air atmosphere without CO₂ until they are ready to be subcultured.

References for SW480 cells:

1. Hartman, J., Edvardsson, K., Lindberg, K., Zhao, C., Williams, C., Strom, A., and Gustafsson, J. A. Tumor repressive functions of estrogen receptor beta in SW480 colon cancer cells. Cancer Res, 69: 6100-6106, 2009.



Product Information Sheet for Addexbio

Lot Specific Information Sheet for AddexBio Cat #: C0009001

Lot Number: 1822760

Designation: SW480 CELLS

Total Cells/mL: >1.1x10⁶

Expected Viability: 73.2-78.9%

Ampule Passage #: 31

Dilute Ampule Content: 1:10 (T-25) or 1:15 (T-75)

Volume/Ampule: 1 mL

A T-25 setup at a dilution of 1:10, using culture medium as described in the product information sheet, reaches approximately 60-70% confluence within 72 hours.