ATCC

Product Sheet

SW 1783 [SW-1783, SW1783] (ATCC® HTB-13™)

Please read this FIRST

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Complete Growth Medium

The base medium for this cell line is ATCC-formulated Leibovitz's L-15 Medium, Catalog No. 30-2008. To make the complete growth medium, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.
(Note: The L-15 medium formulation was devised for use in a free gas exchange with atmospheric air. A CO2 and air mixture is detrimental to cells when using this medium for cultivation)

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: SW 1783 [SW-1783, SW1783] (ATCC® HTB-13™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Organism: *Homo sapiens*, human
Tissue:
brain
Disease: grade III,astrocytoma
Age: 68 years
Gender: male
Morphology: fibroblast
Growth Properties: adherent
Isoenzymes:
AK-1, 1
ES-D, 1
G6PD, B
GLO-I, 2
PGM1, 1
PGM3, 1
DNA Profile:
Amelogenin: X,Y
CSF1PO: 10,13
D13S317: 9,11
D16S539: 12
D5S818: 12,13
D7S820: 9,13
THO1: 6,8
TPOX: 8,11
vWA: 16,17
Cytogenetic Analysis: hypertetraploid; modal number = 96. The rate of higher ploidies was 10.1%. The markers der(5)t(1;5) (p11;p15), t(1q3q), del(3) (q21), der(6)t(6;11) (p12;p15), der(11)t(6;11) (p12;p15), and 5 others were common to most cells. Of these, der (6) and der(11) had consistently two copies per cell, and were probably formed by balanced translocation between N6 and N11. Nine to 10 marker chromosomes were common to some cells, and 10 to 15 others were detected only once. All normal chromosomes were present in 2 to 5 copies per cell. Generally X had 3 copies and Y had 2 copies per cell. Double minutes (DM) were seen in some cells, and only 1 to a few copies occurred per cell.

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

SAFETY PRECAUTION

ATCC 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.

Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Handling Procedure for Frozen Cells

Initiate culture as soon as possible upon receipt.

1. Thaw by rapid agitation in 37°C water bath. Thawing should be rapid (within 40-60 seconds). As soon as the ice is melted, remove the ampule from the waterbath. All of the operations from this point on should be carried out under strict aseptic conditions.
2. Transfer the cell suspension and dilute it with the recommended culture medium in a culture flask (see specific batch information above for dilution ratio); incubate at 37°C in a closed system without CO_2 in air. Since it is important to avoid excessive alkalinity of the medium during recovery of the cells, it is suggested that the culture medium be placed into the culture flask, tube, etc. and the pH be adjusted, as necessary, prior to the addition of the vial contents. Note that the bicarbonate content of the culture medium will determine whether an atmosphere containing CO2 will be required

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3. It is not necessary to remove the freezing additive. However, if desired, the culture medium may be changed to remove the protective freezing additive (dimethylsulfoxide) 24 hours after thawing. If it is desired that the freezing additive be removed immediately, or that a more concentrated cell suspension be obtained, centrifuge the above diluted suspension at approximately 125 x g for 10 minutes, discard the fluid and resuspend the cells with growth medium at the dilution ratio given in the specific batch information above.

Handling Procedure for Flask Cultures

The flask was seeded with cells (see specific batch information above for concentration), grown and completely filled with medium to prevent loss of cells in transit. Remove all of the medium (which can be saved and used as fresh medium) except for a sufficient volume (5-10 mL) to cover the floor of the flask. Incubate at 37°C in a closed system without CO_2 in air. Sometimes in transit the cultures are handled roughly and most of the cells become detached and float in the culture medium. If this has occurred remove the entire contents of the flask and centrifuge at 300 x g for 15 minutes. Draw off the excess supernatant medium, resuspend the cells in 10 mL of the culture medium and plant the entire cell suspension in a single flask of suitable size (about 25 cm^2).

Subculturing Procedure

Remove medium, rinse with fresh 0.25% trypsin solution, remove trypsin and let the culture sit at room temperature (or at 37°C) until the cells detach (about 10 minutes). Add fresh medium, aspirate and dispense into new flasks.
Interval: every 6 to 8 days
Subcultivation Ratio: A subcultivation ratio of 1:2 to 1:4 is recommended
Medium Renewal: 2 to 3 times per week

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.
While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.
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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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