Organism: Homo sapiens, human
Tissue: lung
Disease: grade IV, squamous cell carcinoma
Age: 53 years
Gender: male
Morphology: epithelial
Growth Properties: adherent
Isoenzymes:
- AK-1, 1
- ES-D, 1
- G6PD, B
- GLO-I, 2
- Me-2, 2
- PGM1, 1
- PGM3, 2
DNA Profile:
- Amelogenin: X
- CSF1PO: 11
- D13S317: 8
- D16S539: 11
- D5S818: 11
- D7S820: 11, 12
- THO1: 8
- TPOX: 11
- vWA: 16

Cytogenetic Analysis: hypotriploid; modal number = 56. The rate of higher ploidies was 21.8%. Cells in this line have complex karyotypes. Over 30 marker chromosomes were found in 5 metaphase karyotypes. The marker chromosomes, t(1q;10q), t(1q;22q), t(2q;3q), der (3)t(2;3)(p11;q29), der (7)t(7;17)(q36;q21) and about 20 others were common to most cells. Among these der (7) was generally paired. Normal N3, N5, N12, N13, N14 and N17 were absent. The X was single and the Y was not found on fluorescence observation.

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

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.

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.
3. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes.
4. Resuspend cell pellet with the recommended complete medium (see the specific batch information for
Aseptically remove the entire contents of the flask and centrifuge at Biosafety Level 2 to 3 times per week until cells are ready aseptically removed all but 5 to 10 mL of the shipping medium. The medium can be saved for reuse. Incubate the cells at 37°C in air atmosphere until they are ready to be subcultured.

Subculturing Procedure

Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 mL of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37°C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks. Subcultivation Ratio: A subcultivation ratio of 1:2 is recommended

Medium Renewal: 2 to 3 times per week

Cryopreservation Medium

Complete growth medium described above supplemented with 5% (v/v) DMSO. Cell culture tested DMSO is available as ATCC Catalog No. 4-X.

Comments

The histopathology of the surgical specimen was determined to be grade IV carcinoma.

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

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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,
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 900 [SW-900, SW900] (ATCC® HTB-59™)