ATCC

Product Sheet

UACC-1598 (ATCC® CRL-3128™)

Please read this FIRST

Storage Temp.
liquid nitrogen vapor phase

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 5%
- 0.01 mg/ml transferrin (final conc.)
- 0.01 mg/ml insulin (final conc.)
- 5 µg/mL (55 U/ml) catalase (final conc.)
- 3.6 µg/mL (0.01 mM) hydrocortisone (final conc.)
- 70 µg/mL (0.5mM) o-phosphoethanolamine (final conc.)
- 10 ng/ml human recombinant epidermal growth factor (EGF) (final conc.)
- 3 ng/ml (0.01 µM) estradiol (final conc.)
- 0.8 ng/ml (1 pM) Na-L-thyroxine (final conc.)
- extra 2 mM glutamine

Note: Do not filter complete medium.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: UACC-1598 (ATCC® CRL-3128™)

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: ovary
Disease: cystadenocarcinoma, Grade IV
Age: 78 years
Gender: female
Morphology: epithelial-like
Growth Properties: adherent
DNA Profile:
CSF1PO: 10
D13S317: 13
D16S539: 11, 12
D5S818: 13
D7S820: 7, 9
THO1: 7, 9.3
TPOX: 8, 11
vWA: 14
Amelogenin: X

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

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.
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Handling Procedure for Flask Cultures

Handling Procedure for Flask Cultures
The flask was seeded with cells (see specific batch information), grown, and completely filled with medium at ATCC to prevent loss of cells during shipping.
1. Upon receipt visually examine the culture for macroscopic evidence of any microbial contamination. Using an inverted microscope (preferably equipped with phase-contrast optics), carefully check for any evidence of microbial contamination. Also check to determine if the majority of cells are still attached to the bottom of the flask; during shipping the cultures are sometimes handled roughly and many of the cells often detach and become suspended in the culture medium (but are still viable).
2. **If the cells are still attached,** aseptically remove all but 5 to 10 ml of the shipping medium. The shipping medium can be saved for reuse. Incubate the cells at 37°C **in atmospheric air without additional CO_2** until they are ready to be subcultured.
3. **If the cells are not attached,** aseptically remove the entire contents of the flask and centrifuge at 125 x g for 5 to 10 minutes. Remove shipping medium and save. Resuspend the pelleted cells in 10 ml of this

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medium and add to 25 cm^2 flask. Incubate at 37°C **in atmospheric air without additional CO_2** until cells are ready to be subcultured.

Subculturing Procedure

Protocol:
Subculture when cells reach 80% to 90% confluence. These cells pile up and slough off the flask surface if they become over-confluent.
Volumes used in this protocol are for 75 cm^2 flasks; proportionally reduce or increase amount of dissociation medium for culture vessels of other sizes.

1. Remove and discard culture medium.
2. Briefly rinse the cell layer with Ca++/Mg++ free Dulbecco's phosphate-buffered saline (D-PBS) or 0.25% (w/v) Trypsin - 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor.
3. Add 1.0 to 2.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes).
   Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37.0°C to facilitate dispersal.
4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting.
5. Transfer cell suspension to a centrifuge tube and spin at approximately 125 x g for 5 to 10 minutes. Discard supernatant.
6. Resuspend the cell pellet in fresh growth medium. Add appropriate aliquots of the cell suspension to new culture vessels.
7. Incubate cultures at 37.0°C in atmospheric air without additional CO_2.

Subcultivation ratio: A subcultivation ratio of 1:2 is recommended.
Medium renewal: every 5 to 7 days

Cryopreservation Medium

Cryoprotectant Medium
Complete growth medium described above supplemented with an additional 10% fetal bovine serum (FBS) and 10% DMSO.
Cell culture tested DMSO is available as ATCC Catalog No. 4-X.

Comments

The human ovarian cancer cell line, UACC-1598, was derived from the right ovary of an untreated 78-year-old female. Pathology confirmed that the specimen was a grade IV poorly differentiated papillary serous cystadenocarcinoma.
The UACC-1598 cell line expresses the N-myc oncogene, which is rarely amplified in ovarian cancers.
UACC-1598 cells express low levels of Epidermal Growth Factor Receptor erbB2, and are negative for *ras* by ELISA assay.
The UACC-1598 cell line contains high-level amplification at 3q26 in the form of double minute chromosomes. A high copy number amplification of eukaryotic translation initiation factor 5A2 (*eIF-5A2*) oncogene was detected in this region. Overexpression the *eIF-5A2* oncogene may play an important role in ovarian cancer pathogenesis.

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

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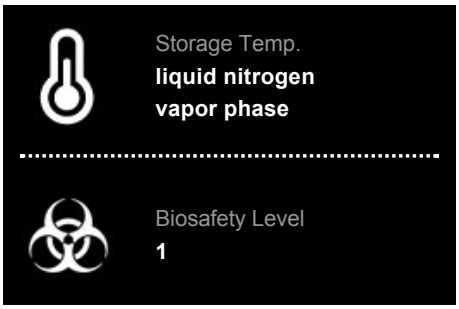

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formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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