ATCC

Product Sheet

SNU-C2A (ATCC® CCL-250.1™)

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

ACL-4 medium supplemented with 10% FBS
The base medium for this cell line is ATCC-formulated DMEM: F12 Medium Catalog No. 30-2006. To make the complete growth medium, add the following components to the base medium:

1. 0.02 mg/ml insulin
2. 0.01 mg/ml transferrin
3. 25 nM sodium selenite
4. 50 nM Hydrocortisone
5. 1 ng/ml Epidermal Growth Factor (do not filter)
6. 0.01 mM ethanolamine
7. 0.01 mM phosphorylethanolamine
8. 100 pM triiodothyronine
9. 0.5% (w/v) bovine serum albumin
10. 10 mM HEPES
11. 0.5 mM sodium pyruvate
12. 2mM L-glutamine(for final conc. of 4.5 mM)
13. 10% FBS

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: SNU-C2A (ATCC® CCL-250.1™)

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
Disease: colorectal carcinoma
Age: 43 years
Gender: female
Morphology: epithelial
Growth Properties: loosely adherent, multicell aggregates
Isoenzymes:
AK-1, 1
ES-D, 1
G6PD, B
GLO-I, 2
Me-2, 2
PGM1, 1
PGM3, 1
Cytogenetic Analysis: modal number = 46; range = 44 to 48.
This is a pseudodiploid human cell line. The modal chromosome number is 46, occurring at 86%, with polyploidy at 16.2%. The ins(1;?)(p13;?), del(3)(p23), t(4q,?), t(8;?), del(9)(p13), del(11)(p13), 14q+ and two other marker chromosomes are common to all metaphases examined. Other altered chromosomes, if any, occur only sporadically. Normal N11 is absent. Two copies of X chromosomes are found in each cell. The Y chromosome is not found in QM stained preparations.

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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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 the 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. Transfer the vial contents to a centrifuge tube containing 9.0 ml complete culture medium and spin at approximately 125 xg for 5 to7 minutes.
4. Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio). 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 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 to 7.6).

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5. Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product

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 a 5% CO_2 in air atmosphere 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 xg for 5 to 10 minutes. Remove shipping medium and save. Resuspend the pelleted cells in 10 ml of this medium and add to 25 cm^2 flask. Incubate at 37°C in a 5% CO_2 in air atmosphere until cells are ready to be subcultured.

Subculturing Procedure

Protocol: Cultures can be maintained by scraping off the attached cells and transfer along with the the floating cells into new flasks.
Medium Renewal: Two times weekly

Cryopreservation Medium

Cryoprotectant Medium
Complete growth medium described above supplemented with extra 10% fetal bovine serum and 7.5% (v/v) DMSO. Cell culture tested DMSO is available as ATCC Catalog No. 4-X.

Comments

This is one of 14 colorectal carcinoma cell lines derived by J.G. Park and associates during the years 1982 through 1985.
The line was obtained from a third passage nude mouse xenograft of tumor fragments obtained from a patient prior to therapy.
The line was initially grown in RPMI 1640 medium with 20% fetal bovine serum, but was later adapted to growth in the chemically defined medium ACL-4 (it can also be grown in medium with 10% serum).
The cells and tumors formed from the cells produce detectable amounts of Dopa decarboxylase and the TAG-72 antigen.

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.

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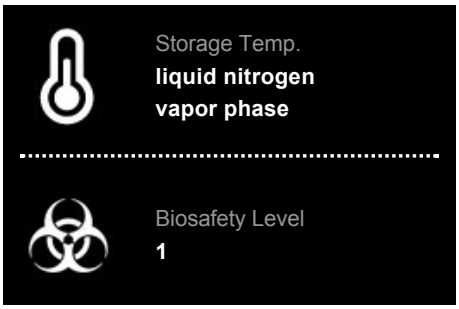

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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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