ATCC

Product Sheet

NCI-H295 [H295] (ATCC® CRL-10296™)

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

HITES medium supplemented with 2% fetal bovine serum

HITES medium with 2% fetal bovine serum is formulated at the ATCC as follows:

- Dulbecco's medium : Ham's F12, 50:50 mix (ATCC 30-2006)
- Insulin 0.005 mg/ml
- Transferrin 0.01 mg/ml
- Sodium selenite 30 nM
- Hydrocortisone 10 nM
- beta-estradiol 10 nM
- HEPES 10 mM
- L-glutamine 2 mM (in addition to that in the base medium)
- fetal bovine serum 2%

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: NCI-H295 [H295] (ATCC® CRL-10296™)

Description

Organism: *Homo sapiens*, human
Disease: adrenocortical carcinoma
Age: 48 years
Gender: female
Morphology: epithelial
Growth Properties: suspension, with some loosely adherent cells, suspension with some loosely attached cells
DNA Profile:
Amelogenin: X
CSF1PO: 10,12
D13S317: 13
D16S539: 11
D5S818: 12
D7S820: 9,12
THO1: 9.3
TPOX: 8
vWA: 17,18
Cytogenetic Analysis: modal number = 62; range = 55 to 64; hypertriploid. Twenty-three marker chromosomes were common to most cells: der(2)t(2;18)(p25;p11), del(3)(q21), der(10)t(10;13)(p15;q11), der(7)t(7;7)(q36;p13), del(7)(q11),; der(8)t(7;8)(p13;p23), del(8)(p12), del(9)(p22), del(9)(p13), del(11)(p12), del(12)(p12), t(13q18q) and 11 others. The del(9)(p13) was paired; normal N13 was absent. N15 had three copies and N22 had four copies.; A total of 65 marker chromosomes were detected in 38 metaphases examined.; A minor subline that occurred in about 16% of the cells was characterized by the presence of del(M5)(7p11) replacing M5, by the single N17 (instead of paired N17) and by the presence of an additional M42.

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 growth medium and spin at approximately 125 xg for 5 to7 minutes.

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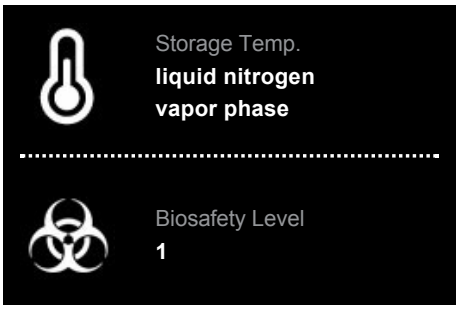

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4. Discard the supernatant and resuspend the cells with fresh medium at the dilution ratio recommended in the specific batch information.. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the 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).
4. 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 sheet.

Handling Procedure for Flask Cultures

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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
2. Incubate the flask in an upright position for several hours at 37°C. After the temperature has equilibrated, aseptically remove the entire contents of the flask and centrifuge at 125 xg for 5 to 10 minutes. Remove shipping medium and save for reuse. Resuspend the cell pellet in 8 ml of this medium.
3. Incubate the culture, horizontally, at 37°C in a 5% CO_2 in air atmosphere..

Subculturing Procedure

Protocol: Cultures can be maintained by addition of fresh medium. Cells grow as floating aggregates of round cells with some loosely attached cells. Shake the flask to dislodge the cells and transfer to a new flask.
Medium Renewal: Add fresh medium every 3 to 4 days (depending on cell density)

Cryopreservation Medium

Cryoprotectant Medium

Complete growth medium described above supplemented with 5% (v/v) DMSO and 10% FBS final concentration.

Cell culture tested DMSO is available as ATCC Catalog No. 4-X.

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.
This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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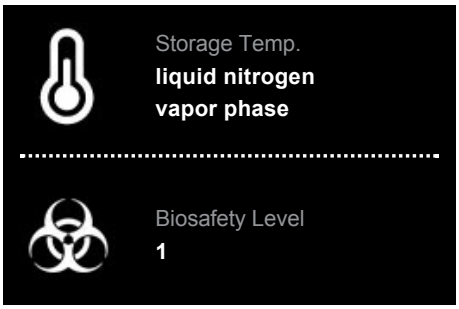

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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