ATCC

Product Sheet

MA-10 (ATCC® CRL-3050™)

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 DMEM:F12 Medium, Catalog No. 30-2006. To make the complete growth medium, add the following components to the base medium:

- additional 20mM HEPES
- horse serum to a final concentration of 15%

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: MA-10 (ATCC® CRL-3050™)

Description

Organism: *Mus musculus*
Strain: C57BL/6J
Tissue: testes
Cell Type: Leydig cell tumor
Morphology: epithelial-like
Growth Properties: adherent

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

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.

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 x g for 5 to 7 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 25 cm^2 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). pH (7.0 to 7.6).
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 sheet.

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.
Note: Culture flasks need to be pre-coated with 0.1% gelatin before adding cells.

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

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
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800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

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125 x g for 5 to 10 minutes. Remove shipping medium and save. Resuspend the pelleted cells in 10 mL of this medium and add to a gelatin-coated 25 cm2 flask. Incubate at 37°C in a 5% CO_2 in air atmosphere until cells are ready to be subcultured.

Subculturing Procedure

Note: These cells are cultured on vessels coated with 0.1% Gelatin (ATCC PCS-999-027).
Note: Use 0.025% Trypsin – 0.053mM EDTA. Dilute 0.25% Trypsin – 0.53mM EDTA (ATCC 30-2101) 1:10 with Ca^{2+}/Mg^{2+} free Dulbecco's phosphate-buffered saline (D-PBS) (ATCC 30-2200).
Note: If cell morphology changes from adherent and epithelial-like to being rounded up and forming loosely attached clusters, the serum may not be appropriate for these cells. Change serum lots and/or vendors to obtain correct morphology.

Volumes used in this protocol are for 75 cm^2 flasks; proportionally reduce or increase amount of solutions for culture vessels of other sizes.
1. Remove and discard culture medium.
2. Briefly rinse the cell layers 2 times with Ca^{2+}/Mg^{2+} free Dulbecco's phosphate-buffered saline (D-PBS).
3. Add 2.0 to 3.0 ml of 0.025% Trypsin-0.053mM 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°C to facilitate dispersal.
4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting.
5. Add appropriate aliquots of the cell suspension to new gelatin-coated culture vessels. An inoculum of 2 x 10^4 to 3 x 10^4 viable cells/cm^2 is recommended.
6. Incubate cultures at 37.0°C.
7. Subculture when cultures reach a cell concentration between 2 x 10^4 to 3 x 10^5 cells/cm2.

Subcultivation ratio: A subcultivation ratio of 1:3 to 1:8 is recommended.
Medium renewal: 2 to 3 times weekly

Cryopreservation Medium

Freeze medium: Complete growth medium supplemented with 10% (v/v) DMSO
Storage temperature: liquid nitrogen vapor phase

Comments

The MA-10 cell line responds to LH/hCG with increased steroid production. This cell line is a relatively homogeneous cell population. This cell line may provide a suitable model system for the study of the regulation of the expression of differentiated functions of Leydig cells and gonadotropin actions.

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

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