Storage Temp. liquid nitrogen vapor phase

Biosafety Level 2

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
Iscove’s modified Dulbecco’s medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate containing 200 ng/mL mouse stem cell factor, 80%, heat-inactivated fetal bovine serum, 20%

Citation of Strain
If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: EML Cell Line, Clone 1 (ATCC® CRL-11691™)

Unpacking & Storage Instructions
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 submerged 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.

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 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).
5. Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ 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 publication), 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 x g for 5 to 10 minutes. Remove shipping medium and save for reuse. Resuspend the cell pellet in 10 mL of this medium.
3. From this cell suspension remove a sample for a cell count and viability. Adjust the cell density of the suspension to 4-5 x 10⁵ viable cells/mL in the shipping medium.
4. Incubate the culture, horizontally, at 37°C in a 5% CO₂ in air atmosphere. Maintain the cell density of the culture as suggested under the subculture procedure.
EML Cell Line, Clone 1 (ATCC® CRL-11691™)

Please read this FIRST

Storage Temp.
liquid nitrogen
vapor phase

Biosafety Level
2

Intended Use
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Complete Growth Medium
Iscove's modified Dulbecco's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate containing 200 ng/ml mouse stem cell factor, 80%; heat-inactivated fetal bovine serum, 20%

Citation of Strain
If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: EML Cell Line, Clone 1 (ATCC® CRL-11691™)

Subculturing Procedure
Cultures can be maintained by addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension in fresh medium at 2 to 3 x 10⁶ viable cells/mL.
Interval: Maintain cultures at cell concentrations between 4 x 10⁶ and 2 x 10⁷ viable cells/mL.
Medium Renewal: Every 2 to 3 days

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
EML Clone 1 is a stem cell factor-dependent lympho-hematopoietic progenitor cell line. They can be induced with IL-7 and bone marrow stromal cells to express characteristics of pre-pro-B lymphocytes.
EML contains progenitors capable of differentiation along B-lymphocyte, erythrocyte, neutrophil, macrophage, mast cell, and megakaryocyte lineages. They are the only known SCF-dependent cell line with both lympho and myelo-erythroid potential.
These cells are available only as a frozen ampule.
RARalpha403 is a truncated cDNA that encodes a peptide of 403 amino acids containing the N-terminus and the DNA-binding domain. RARalphacDNA contains a truncation of the sequences coding for the C-terminal 59 amino acids as well as a portion of the 3' untranslated region.

References
References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 2
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.

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

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