A375-MA2

CRL-3223™

Description

A375-MA2 is an epithelial cell line that was isolated in 2004 from the skin of a 54-year-old, white female patient with malignant melanoma. This increased metastatic cell line was derived using an in vivo selection process of highly metastatic cells from a population of poorly metastatic tumor cells, A375 (ATCC CRL-1619). The A375-M1 (ATCC CRL-3222) cell line was derived by i.v. injection of A375 cells into nude mice. Lung metastases were harvested and amplified in vitro as cell lines. The A375-M1 cell line was reinjected into mice for a second round of selection, lung metastases harvested and amplified in vitro as A375-M2 (ATCC CRL-3223) cells. The A375-M1 and A375-M2 cell lines were transfected with a plasmid containing the ecotropic receptor for murine retrovirus and selected for neomycin resistance. This is useful for RNAse protection assays. The cell line was deposited by R Hynes.

Organism: *Homo sapiens*, human
Tissue: Skin
Age: 54 years
Gender: Female
Morphology: epithelial
Growth properties: Adherent
Disease: Malignant Melanoma
Volume: 1.0 mL

Storage Conditions

Product format: Frozen
Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may 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 vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 37°C
Atmosphere: 95% Air, 5% CO_2

Handling Procedures

Unpacking and 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.

Complete medium: The base medium for this cell line is ATCC-formulated Dulbecco's Modified Eagle's Medium, Catalog No. 30-2002. To make the complete growth medium, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.

Subculturing procedure: Volumes are given for a 75 cm2 flask. Increase or decrease the amount of dissociation medium needed proportionally 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) (ATCC 30-2200) or 0.05% (w/v) Trypsin-0.02% EDTA solution (ATCC PCS-999-003) to remove all traces of serum that contains trypsin inhibitor.
3. Add 2.0 to 3.0 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°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 culture vessels.
6. Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:3 to 1:8 is recommended
Medium Renewal: Every 2 to 3 days

Reagents for cryopreservation: Complete growth medium supplemented with 10% (v/v) DMSO (ATCC 4-X)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: A375-MA2 (ATCC CRL-3223)

References

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

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