



Product Sheet

# FL74-UCD-1 (ATCC® CRL-8012™)

## Please read this FIRST



## 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

Leibovitz's L-15 medium with 2mM L-glutamine, 85%; fetal bovine serum, 15%

(Note: The L-15 medium formulation was devised for use in a free gas exchange with atmospheric air. A CO<sub>2</sub> and air mixture is detrimental to cells when using this medium for cultivation).

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: FL74-UCD-1 (ATCC® CRL-8012™)

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## Description

**Organism:** *Felis catus*, cat  
**Disease:** leukemia  
**Cell Type:** lymphoblast  
**Morphology:** lymphoblast  
**Growth Properties:** suspension

## 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

Recommended Handling Upon Receipt: Initiate culture as soon as possible upon receipt. Thaw by rapid agitation in 37°C water bath. See instructions on back. Dilute ampule contents with culture medium (see batch data above). Add fresh medium as density increases.

## Handling Procedure for Flask Cultures

Suspension Cultures: The culture flask was seeded, see batch data above, and completely filled with medium to prevent loss of cells in transit. Upon receipt incubate the flask in an upright position for several hours to return the flask contents to 37°C. After the temperature has equilibrated, aseptically remove the entire contents of the flask and centrifuge at 300 x g for 15 minutes. Resuspend the cell pellet in 10-12 ml of the shipping medium. From this suspension remove a sample for a cell count and viability so that the cell density of the suspension can be adjusted to 2-5 x 10<sup>5</sup> viable cells/ml. If the suspension needs to be diluted use the shipping medium. Incubate the culture in a flat position at 37°C in a 5% CO<sub>2</sub> in air atmosphere. Maintain the cell density of the culture as suggested under the subculture procedure described above.

## Subculturing Procedure

**Subcultivation Ratio:** A subcultivation ratio of 1:4 is recommended

**Medium Renewal:** Every 2 to 3 days

Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10<sup>5</sup> cells/ml and maintain between 1 X 10<sup>5</sup> and 1 X 10<sup>6</sup> cells/ml.

## Cryopreservation Medium

Culture medium, 95%; DMSO, 5%.

## Comments

These cells are persistently infected with the KT-FeLV-UCD-1 feline leukemia virus.

The line was established from the lymphomatous kidney of a cat that had been inoculated with virus obtained by serial cell free passage of virus from a cat with spontaneous leukemia.

The cells are capable of producing large amounts of feline leukemia that has attenuated virulence for cats, but which is capable of being used for vaccine preparation.

## References



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References and other information relating to this product are available online at [www.atcc.org](http://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](http://www.atcc.org).

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