



Product Sheet

# TelCOFS02MA (ATCC® CRL-4005™)

Please read this FIRST



Storage Temp.  
**Liquid nitrogen  
vapor phase**

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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

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 5%.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: TelCOFS02MA (ATCC® CRL-4005™)

## Shipping Information

Frozen

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Organism:** *Homo sapiens*, human

**Immortalization Method:** Expression of human telomerase (hTERT)

**Tissue:** Skin

**Disease:** COFS (Cerebro-Oculo-Facio-Skeletal Syndrome)

**Cell Type:** Fibroblast

**Age:** 4 to 6 years

**Gender:** Female

**Morphology:** fibroblast

**Growth Properties:** Adherent

**DNA Profile:**

D5S818: 7, 13

D13S317: 10, 12

D7S820: 10, 12

D16S539: 9, 11

vWA: 16, 17

Amelogenin: X

TPOX: 11, 12

CSF1PO: 12

TH01: 7, 9.3

**Cytogenetic Analysis:** TelCOFS02MA is a diploid human cell line of female origin with a modal chromosome number of 46 (46,XX) indicated by cytogenetic analysis on G-banded metaphase cells.

## 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  $-130^{\circ}\text{C}$ , preferably in liquid nitrogen vapor, until ready for use.

## Handling Procedure for Frozen Cells

To ensure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If storage of the frozen culture is necessary upon arrival, store the vial in liquid nitrogen vapor phase and NOT at  $-70^{\circ}\text{C}$ . Storage at  $-70^{\circ}\text{C}$  will result in loss of viability.

1. Prepare a 25 cm<sup>2</sup> or a 75 cm<sup>2</sup> culture flask containing the recommended complete culture medium. Prior to the addition of the vial contents, the vessel containing the growth medium should be placed in the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6) and to avoid excessive alkalinity of the medium during recovery of the cells.
2. 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).
3. 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 operations from this point on should be carried out under strict aseptic conditions.
4. Transfer the vial contents to a centrifuge tube containing 9.0 mL of complete culture medium and centrifuge the cell suspension at approximately 125 x g for 5 to 7 minutes.
5. Discard the supernatant and resuspend the cells in fresh growth medium. Add this suspension to the prepared culture vessel, seeding the cells at 4 X 10<sup>3</sup> to 6 X 10<sup>3</sup> cells/cm<sup>2</sup>.
6. Incubate the culture at 37°C in a suitable incubator.
7. A 5% CO<sub>2</sub>/95% air atmosphere is recommended if using the medium described on this product sheet.


## Subculturing Procedure



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Volumes used in this protocol are for 75 cm<sup>2</sup> flasks; proportionally reduce or increase amount of dissociation solutions for culture vessels of other sizes.

1. Remove and discard spent medium.
  2. Briefly rinse the cells with Dulbecco's Phosphate Buffered Saline (DPBS, ATCC® 30-2200) and discard rinse solution.
  3. Add 2.0 to 3.0 mL room temperature 0.25% Trypsin-EDTA (ATCC® 30-2101) to the flask. Incubate at 37°C for 2-3 min (until cells have detached).
  4. Neutralize trypsin by adding 5-8 mL of complete growth media.
  5. Centrifuge cells at 250 x g for 5 min at room temperature.
  6. Remove supernatant. Resuspend pellet in 6.0 to 8.0 mL Complete Growth Medium.
  7. Count cells, and seed 4.0 x 10<sup>3</sup> to 6.0 x 10<sup>3</sup> viable cells/cm<sup>2</sup> to new culture vessels.
- Medium Renewal: Every 2-3 days.



### Cryopreservation Medium

90% FBS, 10%DMSO



### Comments

CRL-4005 (TelCOFS02MA) is an hTERT-immortalized skin fibroblast cell line derived from a patient with Cerebro-Oculo-Facio-Skeletal Syndrome.



### References

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.

### ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. 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 product. 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](http://www.atcc.org).  
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