



# TeICOFS02MA

CRL-4005™

## Description

For-profit customers intending to use this product for non-commercial screening must include the one-time "ATCC Screening Fee" (ATCC ACS-2103F) with their first purchase of this product.

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

**Cell Type:** fibroblast

**Tissue:** Skin

**Age:** 4 to 6 years

**Gender:** Female

**Morphology:** fibroblast

**Growth properties:** Adherent

**Disease:** COFS Cerebro Oculo Facio Skeletal Syndrome

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** Vapor phase of liquid nitrogen

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## 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.

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## BSL 2

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*

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(*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.

Cells contain SV40 sequences

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.

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### Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### Growth Conditions

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

**Seeding density:** 4.0 x10<sup>3</sup> to 6.0 x 10<sup>3</sup> viable cells/cm<sup>2</sup>

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### Handling Procedures

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**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  $-130^{\circ}\text{C}$ , 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 5%.

**Handling Procedure:** 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  $25\text{ cm}^2$  or a  $75\text{ cm}^2$  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  $37^{\circ}\text{C}$  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  $125 \times g$  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  $4 \times 10^3$  to  $6 \times 10^3$  cells/ $\text{cm}^2$ .
6. Incubate the culture at  $37^{\circ}\text{C}$  in a suitable incubator.
7. A 5%  $\text{CO}_2$ /95% air atmosphere is recommended if using the medium described on this product sheet.

**Subculturing procedure:** Volumes used in this protocol are for  $75\text{ cm}^2$  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.

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: TelCOFS02MA (ATCC CRL-4005)

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## References

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

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The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid.

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