

HFF-1

SCRC-1041TM

Description

HFF-1 SCRC-1041 is a fibroblast cell that was isolated from the foreskin of a donor.

The cells can be used to produce feeder cells.

Organism: *Homo sapiens*, human

Cell Type: fibroblast

Tissue: Skin; Foreskin

Age: neonate

Gender: Male

Morphology: fibroblast

Growth properties: Adherent

Disease: Normal

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

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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% CO₂

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

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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 15%

This medium is formulated for use with a 5% CO₂ in air atmosphere. (Standard DMEM formulations contain 3.7 g/L sodium bicarbonate and a 10% CO₂ in air atmosphere is then recommended).

Handling Procedure: It is not necessary to coat flasks with gelatin prior to plating cells, if tissue culture quality flasks are used. To insure the highest level of viability, be sure to warm media to 37°C before using it on the cells. Cells should be plated at a minimum cell density of 0.8X10⁴ cells/cm².

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.
2. Remove the vial from the water bath as soon as the contents are half way thawed (approximately 90 seconds), 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's contents plus 5 mL of complete growth medium to a 15 mL centrifuge tube. Use an additional 1 mL of media to rinse the vial and transfer the liquid to the 15 mL tube. Add 4 mL of complete growth media to bring the total volume to 10 mL.
4. Gently mix and pellet the cells by centrifugation @ 270 xg for 5 minutes.
5. Discard the supernatant and resuspend the cells with 10 mL fresh growth medium (warm) and plate the cells at seed density of 0.8 X10⁴ cells/cm².
6. Add more fresh growth medium (warm) to obtain the total volume recommended for the flask.
7. Incubate 37°C in a 5%CO₂ in air atmosphere.

Fluid change twice a week or when pH decreases. *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 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).*

Subculturing procedure:**Procedure:**

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To insure the highest level of viability, be sure to warm media and Trypsin/ EDTA to 37°C before using it on the cells.

Cells should be split when they reach confluence. A split ratio of 1:5 to 1:7 is recommended. Volumes used in this protocol are for 225 cm² (T225); proportionally reduce or increase amount of dissociation medium for culture flasks of other sizes.

1. Remove and discard culture medium.
2. Briefly rinse the cell layer with 1X PBS (SCRR-2201) solution to remove all traces of serum, which contain trypsin inhibitor.
3. Add 5 mL of Trypsin-EDTA (0.25% (w/v) Trypsin-0.53 mM EDTA solution, ATCC# 30-2101) solution to flask and incubate for 1 minute, gently tapping the flask observe cells under an inverted microscope until cells detach (usually within 1 to 2 minutes).
4. Add 6.0 to 8.0 mL of complete growth medium and rinse surface of the flask to detach all cells. Gently pipetting up and down will break cell clumps.
5. Transfer all cells into a centrifuge bottle or tube and centrifuge at 270 xg for 5 minutes.
6. Remove and discard the supernatant
7. Add 10 mL complete growth medium to cell pellet and with 10 mL pipette resuspend the cells gently (create a single-cell suspension).
8. Add more complete growth medium to cell suspension as needed to plate cells at approximately 5x10⁶/T225 flask.
9. Place flasks in incubator @ 37°C with a 5% CO₂ in air atmosphere.

Flask/Plate	Growth Area (cm ²)	1xPBS (mL)	Trypsin/EDTA (mL)	Equal vol. Complete Growth Medium (mL)	Growth Medium (mL)
T225	225	10 ± 0.2	6 ± 0.2	6 ± 0.2	30
75	75	5 ± 0.1	3 ± 0.1	3 ± 0.1	12
T25	25	3 ± 0.1	1.5 ± 0.1	1.5 ± 0.1	6
6 well	9.5	1 ± 0.1	1 ± 0.1	1 ± 0.1	3

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Note: For more information on enzymatic dissociation and subculturing of cell lines consult Chapter 13 in *Culture of Animal Cells, a manual of Basic Technique* by R. Ian Freshney, 5th edition, published by Alan R. Liss, N.Y., 1994.

Subcultivation Ratio: A subcultivation ratio of 1:5 to 1:7 is recommended

Medium Renewal: Twice a week or as pH decreases

Reagents for cryopreservation: Dulbecco's Modified Eagle's Medium 30-2002, 7% FBS, 10% (v/v) DMSO. Lots produced prior to May 2019 may have used a different cryopreservation medium (complete growth medium supplemented with an additional 40% FBS and 10% (v/v) DMSO), contact our Product Experience Specialists for further details.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: HFF-1 (ATCC SCRC-1041)

References

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

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Revision

This information on this document was last updated on 2025-10-17

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