ATCC

Product Sheet

Fibroblast Basal Medium (ATCC® PCS-201-030™)

Please read this FIRST

Storage Temp.
2 to 8°C; protect from light

Biosafety Level
1

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Product Description:
Fibroblast Basal Medium is a sterile, phenol red-free, liquid tissue culture medium intended for use as one component in a complete ATCC® Primary Cell Solutions™ system. This system is designed to support fibroblasts derived from normal human epidermis. Fibroblast Basal Medium contains essential and non-essential amino acids, vitamins, other organic compounds, trace minerals and inorganic salts.

A. To support the proliferation and plating efficiency of fibroblasts (e.g., Dermal Fibroblasts, Normal, Human Neonatal [ATCC PCS-201-010], Dermal Fibroblasts, Normal, Human Neonatal, Mitomycin C Treated [ATCC PCS-201-010]), Fibroblast Basal Medium must be supplemented with one of the following kits:
    1. Fibroblast Growth Kit–Serum-Free (ATCC PCS-201-040)
    2. Fibroblast Growth Kit–Low Serum (ATCC PCS-201-041)
B. Optional media supplements:
    1. Gentamicin-Amphotericin B Solution (ATCC PCS-999-025)
    2. Penicillin-Streptomycin-Amphotericin B Solution (ATCC PCS-999-002)
    3. Phenol Red (ATCC PCS-999-001)

Volume: 480 ml

Directions for Use

1. Obtain one growth kit from the freezer; make sure that the caps of all components are tight.
2. Thaw the components of the growth kit just prior to adding them to the basal medium. It is necessary to warm the L-glutamine component in a 37°C water bath and shake to dissolve any precipitates, prior to adding to the basal medium.
3. Obtain one bottle of Fibroblast Basal Medium (480 mL) from cold storage.
4. Decontaminate the external surfaces of all growth kit component vials and the basal medium bottle by spraying them with 70% ethanol.
5. Using aseptic technique and working in a laminar flow hood or biosafety cabinet, transfer the volume of each growth kit component, as indicated in Table 1 or 2, to the bottle of basal medium using a separate sterile pipette for each transfer.

Table 1. If using the Fibroblast Growth Kit–Serum-Free (ATCC® PCS-201-040), add the indicated volume for each component in the order shown.

Component	Volume	Final Concentration
L-glutamine	18.75 mL	7.5 mM
Hydrocortisone Hemisuccinate	0.5 mL	1 mg/mL
HLL Supplement	1.25 mL	HSA 500 mg/mL Linoleic Acid 0.6 mM Lecithin 0.6 mg/mL
rh FGF b	0.5 mL	5 ng/mL
rh EGF / TGF b-1 Supplement	0.5 mL	5 ng/mL 30 pg/mL
rh Insulin	0.5 mL	5 mg/mL
Ascorbic acid	0.5 mL	50 µg/mL

Table 2. If using the Fibroblast Growth Kit–Low Serum (ATCC® PCS-201-041), add the indicated volume for each of the following components:

Component	Volume	Final Concentration
rh FGF b	0.5 mL	5 ng/mL
L-glutamine	18.75 mL	7.5 mM
Ascorbic acid	0.5 mL	50 mg/mL
Hydrocortisone Hemisuccinate	0.5 mL	1 mg/mL
rh Insulin	0.5 mL	5 mg/mL
Fetal Bovine Serum	10.0 mL	2%

Antimicrobials and phenol red are not required for proliferation but may be added if desired. The recommended volume of each ***optional*** component to be added to the complete growth media is summarized in Table 3.

Table 3. Addition of Antimicrobials/Antimycotics and Phenol Red (Optional)

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Component	Volume	Final Concentration
Gentamicin-Amphotericin B Solution	0.5 mL	Gentamicin: 10 µg/mL Amphotericin B: 0.25 µg/mL
Penicillin-Streptomycin-Amphotericin B Solution	0.5 mL	Penicillin: 10 Units/mL Streptomycin: 10 µg/mL Amphotericin B: 25 ng/mL
Phenol Red	0.5 mL	33 µM

6. Tightly cap the bottle of complete growth medium and swirl the contents gently to assure a homogeneous solution. Do not shake forcefully to avoid foaming. Label and date the bottle.
7. Complete growth media should be stored in the dark at 2°C to 8°C (do not freeze). When stored under these conditions, complete media is stable for 30 days.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. 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 strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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