Primary Skeletal Muscle Growth Kit

PCS-950-040™

Description

Primary Skeletal Muscle Cell Growth Kit contains components that when added to Mesenchymal Stem Cell Basal Medium (ATCC PCS-500-030) create a complete ATCC Primary Cell Solutions culture environment for skeletal muscle cells derived from a normal human skeletal tissue (eg, Primary Skeletal Muscle Cells, Normal, Human, ATCC PCS-950-010). The medium formulation is designed to support normal skeletal cell proliferation and growth. No feeder layers, extracellular matrix proteins, or other substrates are required.

Shipping information: 1 kit

Storage Conditions

Product format: Frozen

Storage conditions: -20°C or colder, -70°C for long-term storage

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

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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Handling Procedures

Unpacking and Storage Instructions

1. Check all containers for leakage or breakage.
2. Store the growth kit(s) at either 20°C in a freezer that is not self-defrosting or at 70°C for long term storage. If thawed upon arrival, the Growth Kit can be stored at 2°C to 8°C and added to the basal medium within 72 hours of receipt.

Preparation of Complete Growth Media

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 to the basal medium. 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 Mesenchymal Stem Cell Media (PCS-500-030; 485 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 indicated volume of each growth kit component to the bottle of basal medium using a separate sterile pipette for each.

Table 1. Component Volume Final Concentration

Component	Volume	Final Concentration
L-Glutamine	25 mL	10 mM
rh EGF	0.5 mL	5 ng/mL
Dexamethasone	1.0 mL	10 µM
rh FGF-b	0.5 mL	5 ng/mL
rh insulin	2.5 mL	25 µg/mL
Stem Cell Qualified FBS	20 mL	4%

Component Volume Final Concentration

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 2.

Table 2. Addition of Antimicrobials/Antimycotics and Phenol Red (Optional)

Component	Volume	Final Concentration
Penicillin-Streptomycin-Amphotericin B Solution (ATCC PCS-999-002)	0.5 mL	Penicillin: 10 Units/mL Streptomycin: 10 µg/mL

		Amphotericin B: 25 ng/mL
Phenol Red (ATCC PCS-999-001)	0.5 mL	33 µM

- 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.
- Complete 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.

Quality Control Specifications

Bacterial and fungal testing: Not detected

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Primary Skeletal Muscle Growth Kit (ATCC PCS-950-040)

References

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

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