

HSkM-S

Cat. no. A12555

Product Description

HSkM-S (Cat. no. A12555) are normal human skeletal myoblasts developed to undergo highly efficient differentiation directly following plating of cryopreserved cells. The cells are:

- Tested for mycoplasma, bacteria, yeast, or other fungi, Hepatitis B, Hepatitis C, and HIV-1 viruses.
- Performance tested: guaranteed to differentiate $\geq 50\%$ following 48 hours of incubation.
- Guaranteed to be $\geq 70\%$ viable (as determined by trypan blue)

Each vial of HSkM-S contain sufficient number of cells to fully seed $\frac{1}{4}$ of a single multi-well dish (ranging in format from 6-well to 384-well).

Storage and Stability

Cryopreserved HSkM are shipped frozen on dry ice. If the cells are not to be used immediately, store the vial in the vapor phase of a liquid nitrogen freezer. Wearing protective eyewear, gloves, and a laboratory coat, remove the vial from its shipping container and place it immediately in the liquid nitrogen freezer. Although the viability of cryopreserved cells decreases with time in storage, useful cultures can usually be established even after 2 years of storage at liquid nitrogen temperatures.

Caution: Although cryopreserved cells from Invitrogen have been tested for the presence of various hazardous agents, diagnostic tests are not necessarily 100% accurate. In addition, human cells may harbor other known or unknown agents or organisms which could be harmful to your health or cause fatal illness. Treat all human cells as potential pathogens. Wear protective clothing and eyewear. Practice appropriate disposal techniques for potentially pathogenic or biohazardous materials.

Initiating Cultures from Cryopreserved Cells

PREPARE DIFFERENTIATION MEDIUM

Gibco® HSkM Differentiation Medium (DM) consists of D-MEM Basal Medium (Cat. no. 11885-084) supplemented with 2% Horse Serum (Cat. no. 16050-130). To prepare 500 mL bottle of Differentiation Medium, add 10 mL of Horse Serum to a 500 mL of D-MEM. Mix gently and date the bottle. Store at 4°C protected from light. Use the Differentiation Medium within 30 days of preparation.

THAW AND SEED CELLS

1. Add 10 mL of Differentiation Medium to a sterile 50-mL conical tube.
2. Remove a vial of HSkM from liquid nitrogen storage, taking care to protect hands and eyes.
3. Dip the lower half of the vial into a 37°C water bath to thaw.
4. When the contents of the vial have thawed, wipe the outside of the vial with disinfecting solution and move to the cell culture hood.
5. Open the vial and transfer cell suspension to conical tube containing Differentiation Medium.
6. Rinse the cryovial once with approximately 1 mL of Differentiation Medium and combine with cells in the conical tube.
7. Centrifuge for 5 minutes at 180 x g at room temperature.
8. Aspirate the medium, taking care not to disturb pellet.
9. Add 6.25 mL of fresh Differentiation Medium and resuspend the pellet by gently pipetting up and down (typically 4–6 times with a 10 mL pipette).
10. Add an appropriate volume of cell suspension per well based on the Multiwell Plate Seeding Guide below.
11. Return the cells to a humidified, 37 C, 5%CO₂ incubator.
12. Incubate the cells for 48 hours to enable rapid differentiation.

HSkM Multiwell Plate Seeding Guide		
Plate format	Volume/well	Approximate number of cells/well
6-well	4 mL	960,000
12-well	2 mL	480,000
24-well	1 mL	240,000
96-well	200 µL	48,000
384-well	50 µL	12,000

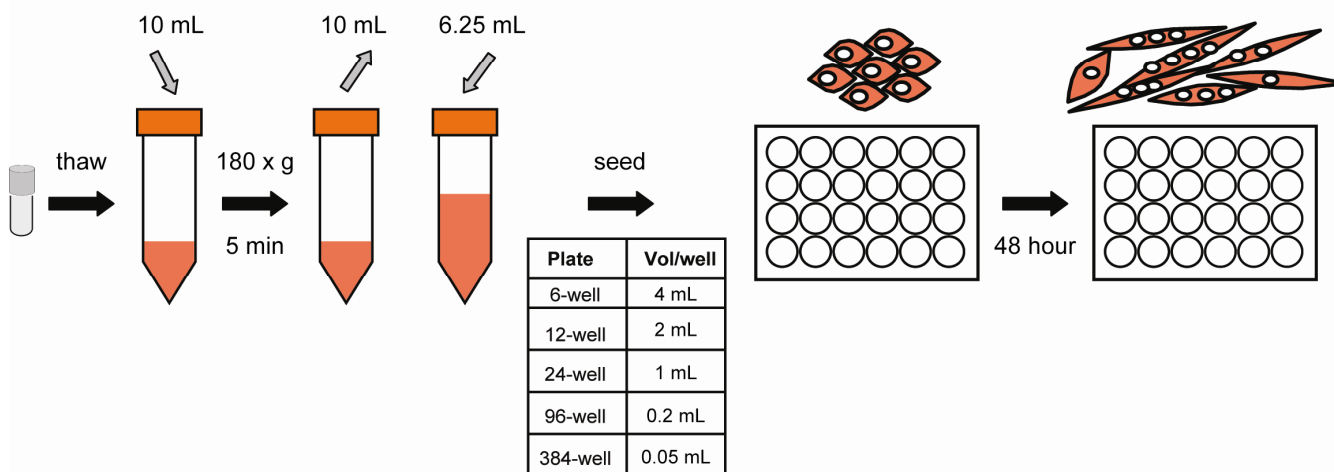
For optimal performance, we highly recommend seeding cells recovered from cryopreservation at the densities described in the Seeding Guide table above.

For research use only.

Life Technologies Corporation • 5791 Van Allen Way • Carlsbad • CA 92008 • Tel: 800.955.6288 • www.invitrogen.com

E-mail: tech_support@invitrogen.com

Quick Start Guide for HSkM-S



Intended Use

Cryopreserved HSkM are intended for use by researchers investigating the molecular and biochemical bases of various normal and disease processes.

This product is for research use only. Not intended for human or animal therapeutic or diagnostic use.

Limited Use Label License No. 5: Invitrogen Technology

The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. The buyer may transfer information or materials made through the use of this product to a scientific collaborator, provided that such transfer is not for any Commercial Purpose, and that such collaborator agrees in writing (a) not to transfer such materials to any third party, and (b) to use such transferred materials and/or information solely for research and not for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For products that are subject to multiple limited use label licenses, the terms of the most restrictive limited use label license shall control. Life Technologies Corporation will not assert a claim against the buyer of infringement of patents owned or controlled by Life Technologies Corporation which cover this product based upon the manufacture, use or sale of a therapeutic, clinical diagnostic, vaccine or prophylactic product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. If the purchaser is not willing to accept the limitations of this limited use statement, Life Technologies is willing to accept return of the product with a full refund. For information about purchasing a license to use this product or the technology embedded in it for any use other than for research use please contact Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008; Phone (760) 603-7200 or e-mail: outlicensing@lifetech.com.

The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.

©2010 Life Technologies Corporation. All rights reserved.
 For research use only. Not intended for any animal or human therapeutic or diagnostic use.

For research use only.

Life Technologies Corporation • 5791 Van Allen Way • Carlsbad • CA 92008 • Tel: 800.955.6288 • www.invitrogen.com

E-mail: tech_support@invitrogen.com