HSkM-L

Cat. no. A11440

Product Description

HSkM-L (Cat. no. A11440) 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 ≥50% following 48 hours of incubation.
- Guaranteed to be ≥70% viable (as determined by trypan blue)

Each vial of HSkM-L contain sufficient number of cells to fully seed 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 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%CO_2 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.

Quick Start Guide for HSkM-L

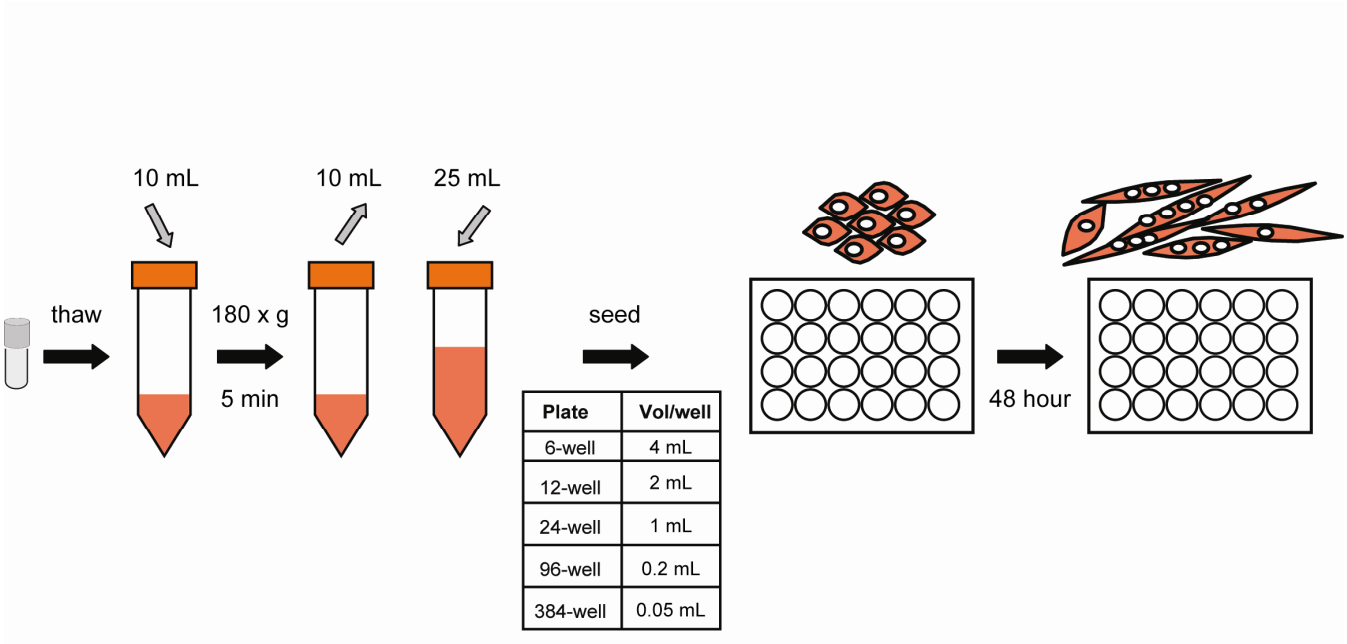

Plate	Vol/well
6-well	4 mL
12-well	2 mL
24-well	1 mL
96-well	0.2 mL
384-well	0.05 mL

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

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