Human Skeletal Myoblasts (HSkM)

Catalog Number A11440, A12555

Pub. No. MAN0002733

Rev. 2.0

Product description

HSkM (Cat. Nos. A11440, 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 ≥50% following 48 hours of incubation.
- Guaranteed to be ≥70% viable (as determined by trypan blue)

Each vial of HSkM contains sufficient number of cells to fully seed a single multi-well dish (ranging in format from 6-well to 384-well).

Product	Catalog No.	Amount	Shipping	Storage
Human Skeletal Myoblasts (HSkM)	A11440	1 vial ($\geq 5 \times 10^6$ viable cells/vial)	Frozen on dry ice	Liquid nitrogen vapor phase
	A12555	1 vial ($\geq 1 \times 10^6$ viable cells/vial)		

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.

Intended Use

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

Caution

Although cryopreserved cells 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. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

For Research Use Only. Not for use in diagnostic procedures.

ThermoFisher SCIENTIFIC

Initiate 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 the vial of cells to be thawed from liquid nitrogen and rapidly thaw by placing at 37°C in a water bath with gentle agitation for 1–2 minutes (or once a sliver of ice is left in the tube). Complete thawing can be detrimental to the cell viability.
3. When the contents of the vial have thawed, wipe the outside of the vial with disinfecting solution and move to the cell culture hood.
4. Open the vial and transfer cell suspension to conical tube containing Differentiation Medium.
5. Rinse the cryovial once with approximately 1 mL of Differentiation Medium and combine with cells in the conical tube.
6. Centrifuge for 5 minutes at 180 × *g* at room temperature.
7. Aspirate the medium, taking care not to disturb pellet.
8. 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).
9. Add an appropriate volume of cell suspension per well based on the Multiwell Plate Seeding Guide below.
10. Return the cells to a humidified, 37°C, 5% CO_2 incubator.
11. 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

IMPORTANT! For optimal performance, seed the cells recovered from cryopreservation at the densities described in the Seeding Guide table above.

Quick Start Guide for HSkM

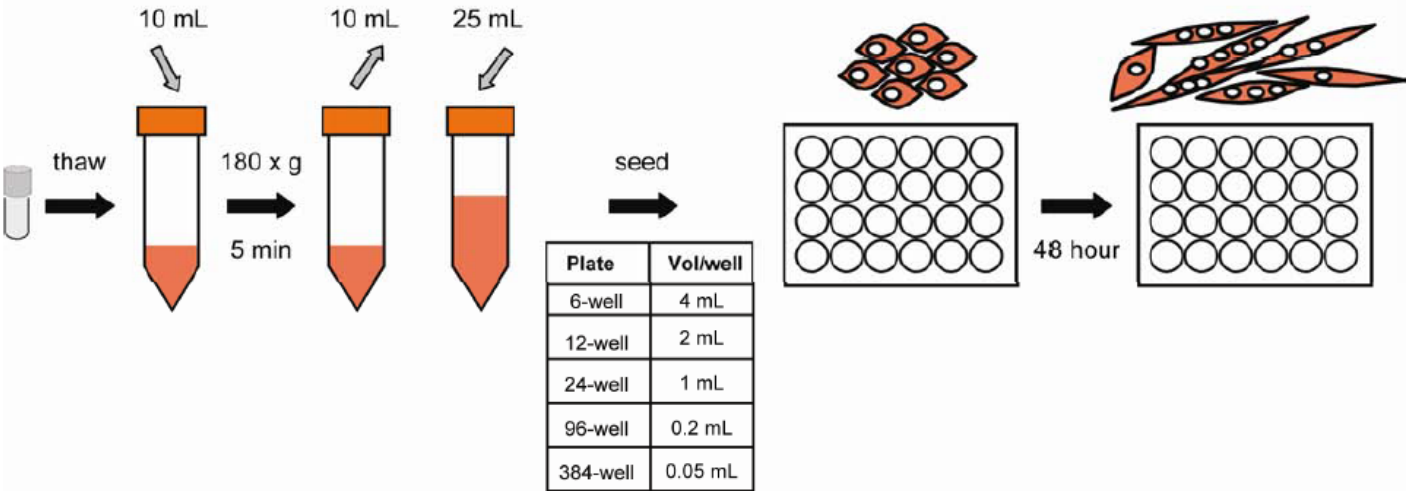

Plate	Vol/well
6-well	4 mL
12-well	2 mL
24-well	1 mL
96-well	0.2 mL
384-well	0.05 mL

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html**. If you have any questions, please contact Life Technologies at **thermofisher.com/support**.

Life Technologies Corporation | 3175 Staley Road | Grand Island, NY 14072

For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

The information in this guide is subject to change without notice.

DISCLAIMER: TO THE EXTENT ALLOWED BY LAW, THERMO FISHER SCIENTIFIC INC. AND/OR ITS AFFILIATE(S) WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

Important Licensing Information: This product may be covered by one or more Limited Use Label Licenses. By use of this product, you accept the terms and conditions of all applicable Limited Use Label Licenses.

©2019 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified.

thermofisher.com/support | thermofisher.com/askaquestion

thermofisher.com

24 October 2019