


Human Melanocyte Growth Supplement (HMGS)

Catalog Number S0025

Pub. No. MAN0001576 Rev. 3.0

 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](https://www.thermofisher.com/support).

Product description

Human Melanocyte Growth Supplement (HMGS) is a sterile, concentrated (100X) solution intended for use as one component in a complete culture environment for the growth of normal human epidermal melanocytes. HMGS is an ionically-balanced supplement containing bovine pituitary extract (BPE), fetal bovine serum, recombinant human insulin-like growth factor-I, bovine transferrin, basic fibroblast growth factor, hydrocortisone, heparin, and phorbol 12-myristate 13-acetate (PMA). Each 5 mL bottle of HMGS is the correct amount of supplement for a 500 mL bottle of Medium 254.

HMGS is designed for use with Medium 254 for the routine culture of normal human epidermal melanocytes. Additional applications may include primary isolation of melanocytes from skin. The HMGS formulation is based on published supplementation of MCDB 153 medium with modifications.

Contents and storage

Catalog numbers that appear as links open the web pages for those products.

Product	Cat. No.	Amount	Storage
Human Melanocyte Growth Supplement (HMGS)	S0025	5 mL	-20°C; Store in a manual defrost freezer ^[1,2]

^[1] When stored at -20°C, the product is stable until the expiration date on the label.

^[2] After long-term storage at -20°C, HMGS may contain a small amount of precipitate. This precipitate is formed from cold-insoluble material in the BPE component of the HMGS and will not affect the performance of the product.

Thaw the Human Melanocyte Growth Supplement

Place the HMGS in a 37°C water bath or overnight at 4°C.

Note: If thawed in a water bath, do not leave the product at 37°C after the product has thawed.

For instructions on adding HMGS to Medium 254, see the instructions that accompany the basal medium.

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 at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.



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For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](https://www.thermofisher.com/symbols-definition).

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

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Revision history: Pub. No. MAN0001576

Revision	Date	Description
3.0	17 November 2021	<ul style="list-style-type: none"> Replaced "bovine insulin" with "recombinant human insulin-like growth factor-I" in "Product description" on page 1. Updated to the current document template, with associated updates to trademarks, logos, licensing, and warranty.

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