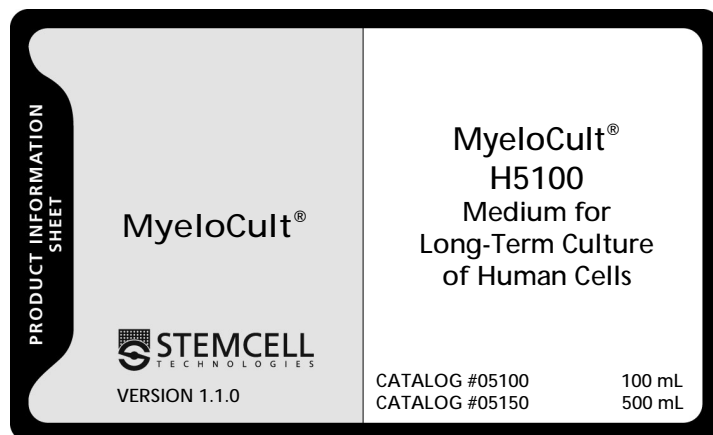


## RECOMMENDED FOR

Initiation and maintenance of myeloid long-term cultures of human hematopoietic cells and stromal cell "feeder" layers. The sera used in this formulation have been pre-tested and selected for their ability to support long-term myelopoiesis by primitive human hematopoietic cells (e.g. in long-term culture-initiating cell (LTC-IC) assays).



## PRODUCT DESCRIPTION

### Components include:

- Horse Serum
- Fetal Bovine Serum
- i-inositol
- Folic acid
- 2-Mercaptoethanol
- L-glutamine
- MEM Alpha

This product is a biological reagent, and as such cannot be completely characterized or quantified.

MyeloCult<sup>®</sup> media are aseptically manufactured using tightly controlled processes and extensively prescreened components.

Each batch of MyeloCult<sup>®</sup> is sterility tested. A Certificate of Analysis is available upon request.

## STABILITY AND STORAGE

Product stable at -20°C until expiry date indicated on label.

Product stable for up to one month when stored at 2 - 8°C (see Directions for Use for more details).

## DIRECTIONS FOR USE

For more detailed instructions refer to the Technical Manual for Human Long-Term Culture-Initiating Cell (LTC-IC) Assay (Manual Catalog #28412), available upon request and on our website at [www.stemcell.com/technical/manuals.aspx](http://www.stemcell.com/technical/manuals.aspx).

Thaw MyeloCult<sup>®</sup> H5100 medium in refrigerator, at room temperature or at 37°C until just thawed. Mix well by swirling.

**NOTE:** If precipitate or crystals are present after thawing, allow the medium to equilibrate to room temperature or place at 37°C for up to one hour and mix well by swirling. If precipitate or crystals persist, centrifuge or filter using 0.2 µm low protein binding filter before use.

Before using MyeloCult<sup>®</sup> H5100 medium, add freshly prepared and filter-sterilized hydrocortisone sodium succinate (Catalog #07904) to give a final concentration of 10<sup>-6</sup> M. After addition of hydrocortisone, the medium is stable for up to one week when stored at 2 - 8°C.

Cultures should be established in tissue culture-treated plasticware to promote cell attachment and adherent layer formation.

During medium changes, care should be taken to avoid disturbing the adherent layer. Do not touch the bottom of the dish when pipetting; instead, rest the pipette against the side of the dish. When dispensing, allow medium to run slowly down the side of the dish rather than directly onto the surface of the adherent layer.

## REFERENCES

1. Sutherland HJ, Lansdorp PM, Henkelman DH, Eaves AC, Eaves CJ: Functional characterization of individual human hematopoietic stem cells cultured at limiting dilution on supportive marrow stromal layers. *Proc Natl Acad Sci USA* 87: 3584-3588, 1990
2. Eaves CJ, Cashman JD, Eaves AC: Methodology of long-term culture of human hemopoietic cells. *J Tissue Culture Methods* 13: 55-62, 1991
3. Sutherland HJ, Eaves AC, Eaves CJ: Quantitative assays for human hemopoietic progenitor cells. In: *Bone Marrow Processing and Purging: A Practical Guide* (AP Gee, ed.), CRC Press Inc., Boca Raton, pp 155-171, 1991
4. Petzer AL, Hogge DE, Lansdorp PM, Reid DS, Eaves CJ: Self-renewal of primitive human hematopoietic cells (long term culture-initiating cells) *in vitro* and their expansion in defined medium. *Proc Natl Acad Sci USA* 93: 1470-1474, 1996
5. Hogge DE, Lansdorp PM, Reid D, Gerhard B, Eaves CJ: Enhanced detection, maintenance and differentiation of primitive human hematopoietic cells in cultures containing murine fibroblasts engineered to produce human steel factor, Interleukin-3 and granulocyte colony-stimulating factor. *Blood* 88: 3765-3773, 1996
6. Miller CL, Eaves CJ: Long-term culture-initiating cell assays for human and murine cells. In: *Hematopoietic Stem Cell Protocols* (CA Klug, CT Jordan, eds.), Humana Press Inc., Totowa, New Jersey, pp 123-141, 2002



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