

# MethoCult™ GF M3434



## Methylcellulose-based medium with recombinant cytokines (including EPO) for mouse cells

Catalog # 03444      24 x 3 mL  
03434      100 mL

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## Product Description

### Complete Methylcellulose-Based Medium for Colony-Forming Unit (CFU) Assays for Mouse Cells

MethoCult™ GF M3434 is optimized for the detection and quantification of mouse hematopoietic progenitor cells in bone marrow, spleen, peripheral blood, and fetal liver samples using CFU assays.

MethoCult™ GF M3434 is formulated to support optimal growth of erythroid progenitor cells (CFU-E, BFU-E), granulocyte-macrophage progenitor cells (CFU-GM, CFU-G, CFU-M), and multipotential granulocyte, erythroid, macrophage, megakaryocyte progenitor cells (CFU-GEMM).

## Properties

- Storage:** Store at -20°C.
- Shelf Life:** Stable until expiry date (EXP) on label.
- Contains:**
- Methylcellulose in Iscove's MDM
  - Fetal bovine serum
  - Bovine serum albumin
  - Recombinant human insulin
  - Human transferrin (iron-saturated)
  - 2-Mercaptoethanol
  - Recombinant mouse stem cell factor (SCF)
  - Recombinant mouse interleukin 3 (IL-3)
  - Recombinant human interleukin 6 (IL-6)
  - Recombinant human erythropoietin (EPO)
  - Supplements

This product contains material derived from human plasma. Donors have been tested and found negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

## Handling / Directions For Use

NOTE: If product is received partially thawed, place immediately at -20°C or thaw and aliquot as described below. Do not use MethoCult™ past the expiry date as indicated on the label.

NOTE: Do not use pipettes to dispense methylcellulose as the volume dispensed will not be accurate. Syringes and large bore blunt-end needles should be used for accurate dispensing of viscous methylcellulose medium and to prevent needle-stick injuries.

### A. TO PREPARE 100 mL BOTTLE (Catalog #03434)

1. Thaw 100 mL bottle of MethoCult™ GF M3434 at room temperature (15 - 25°C) or overnight at 2 - 8°C. Do not thaw MethoCult™ at 37°C.
2. Shake vigorously for 1 - 2 minutes and then let stand for at least 5 minutes to allow bubbles to rise to the top before aliquoting.
3. Using a luer lock syringe (3 mL [Catalog #28230] or 6 mL) attached to a 16 gauge Blunt-End Needle (Catalog #28110), aliquot as follows:
  - 3 mL per tube for 1.1 mL duplicate cultures
  - 4 mL per tube for 1.1 mL triplicate cultures

NOTE: Tubes can be used immediately or stored at -20°C. After thawing aliquoted tubes of MethoCult™, mix well and use immediately. Do not re-freeze.

**B. TO PREPARE 3 mL TUBES (Catalog # 03444)**

Thaw 3 mL tubes of MethoCult™ GF M3434 at room temperature (15 - 25°C) or overnight at 2 - 8°C. Do not thaw MethoCult™ at 37°C. Mix thoroughly.

For recommended cell plating concentrations, setup of mouse CFU assays, and counting and classification of mouse colonies, refer to the Technical Manual: Mouse Colony-Forming Unit (CFU) Assays Using MethoCult™ (Document #28405), available at [www.stemcell.com](http://www.stemcell.com) or contact us to request a copy.

## Notes and Tips

### RELATED PRODUCTS

For related products, including specialized culture and storage media, supplements, antibodies, cytokines, and small molecules, visit [www.stemcell.com/HSPCworkflow](http://www.stemcell.com/HSPCworkflow) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

Miller CL & Lai B. (2005) Human and mouse hematopoietic colony-forming cell assays. In: Helgason CD & Miller CL (Eds.). Basic Cell Culture Protocols (pp. 71–89). Totowa, New Jersey: Humana Press Inc.

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