Meth	oCult¹	™ GF M3434	STENCELL <sup>M</sup>
Methylcellulose-Based Medium with Recombinant Cytokines for Mouse Cells			Cientists Helping Scientists™   WWW.STEMCELL.COM
Catalog #	03434 03444	100 mL 24 x 3 mL	INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE
		FOR I	RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES

### 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 (BM), spleen, peripheral blood (PB) and fetal liver (FL) samples using CFU assays.

MethoCult<sup>™</sup> GF M3434 is formulated to support optimal growth of erythroid progenitor cells (CFU-E, BFU-E), granulocyte/macrophage progenitor cells (CFU-GM, CFU-M, CFU-G) and multi-potential 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<br/>• Fetal bovine serum
  - Bovine serum albumin
  - Recombinant human (rh) insulin
  - Human transferrin (iron-saturated)
  - 2-Mercaptoethanol
  - Recombinant mouse (rm) Stem Cell Factor
  - rm IL-3
  - rh IL-6
  - rh Erythropoietin (EPO)
  - Supplements

Human transferrin used in this product has been derived from human plasma. Donors have been tested and found negative for hepatitis B surface antigen (HBsAg) and HIV-1 antibodies and/or HIV-1 antigen. 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<sup>™</sup> 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<sup>™</sup> GF M3434 at room temperature (15 25°C) or overnight at 2 8°C. Do not thaw MethoCult<sup>™</sup> 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 3 or 6 mL luer lock syringe attached to a 16 gauge Blunt-End Needle (Catalog #28110), aliquot 3 mL per tube for 1.1 mL duplicate cultures or 4 mL per tube for 1.1 mL triplicate cultures. Tubes can be used immediately or stored at -20°C. After thawing tubes of MethoCult<sup>™</sup>, mix well and use immediately. Do not re-freeze.
- B. TO PREPARE 3 mL TUBES (Catalog # 03444)
- 1. Thaw 3 mL tubes of MethoCult<sup>™</sup> GF M3434 at room temperature (15 25°C) or overnight at 2 8°C. Do not thaw MethoCult<sup>™</sup> at 37°C. Mix thoroughly. MethoCult<sup>™</sup> GF M3434 is now ready for use.



For recommended cell plating concentrations, set-up of mouse CFU assays, and counting and classification of mouse colonies, refer to the Technical Manual: Mouse Colony-Forming Unit Assays Using MethoCult<sup>™</sup> (Document #28405), available on our website at www.stemcell.com or contact us to request a copy.

## References

Miller CL, Lai B: Human and Mouse Hematopoietic Colony-Forming Cell Assays, in Helgason CD, Miller CL (eds): Basic Cell Culture Protocols, Totowa, NJ, Humana Press Inc., pp 71-89, 2005

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