

MethoCult™ SF M3436

Serum-free methylcellulose-based medium with recombinant cytokines (including EPO) for mouse erythroid progenitor cells

Catalog # 03436 100 mL



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Product Description

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

MethoCult™ SF M3436 is optimized for the detection and quantification of mouse erythroid progenitor cells in bone marrow (BM), fetal liver (FL), spleen, peripheral blood (PB), and purified cell preparations using CFU assays.

MethoCult™ SF M3436 is formulated to support optimal growth of burst-forming unit-erythroid (BFU-E). It does not support the growth of granulocyte-macrophage progenitor cells (CFU-GM, CFU-G, CFU-M) or 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
 - Bovine serum albumin
 - Recombinant human insulin
 - Human transferrin (iron-saturated)
 - 2-Mercaptoethanol
 - Cytokines (including 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.

1. Thaw 100 mL bottle of MethoCult™ SF M3436 at room temperature (15 - 25°C) or overnight at 2 - 8°C.
NOTE: 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 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™, mix well and use immediately. Do not re-freeze.

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 Assays Using MethoCult™ (Document #28405), available at www.stemcell.com or contact us to request a copy.

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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