MethoCult[™] H4531

Methylcellulose-based medium with agar-LCM (without EPO) for human cells

100 mL Catalog # 04531



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Product Description

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

MethoCult™ H4531 is formulated for the detection and guantification of human hematopoietic progenitor cells in bone marrow, mobilized peripheral blood, peripheral blood, and cord blood samples using CFU assays. It is suitable for use with CD34+ enriched cells, mononuclear cells, and cells isolated by other purification methods.

MethoCult™ H4531 is formulated to support the growth of granulocyte-macrophage progenitor cells (CFU-GM, CFU-G, and CFU-M). MethoCult™ H4531 contains agar leukocyte conditioned medium (agar-LCM) as a source of colony-stimulating factors, and does not contain erythropoietin (EPO). It is suitable for detection of "EPO-independent" erythroid progenitor cells.

Properties

Storage: Store at -20°C.

NOTE: Product may be shipped with dry ice or ice packs and may be received thawed.

- Shelf Life: Stable until expiry date (EXP) on label.
- Contains: Methylcellulose in Iscove's MDM
 - Fetal bovine serum
 - Bovine serum albumin
 - 2-Mercaptoethanol
 - Agar-LCM
 - Supplements

Handling/Directions for Use

NOTE: If product is received partially thawed, place immediately at -20°C or thaw and aliquot as described below.

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.

THAWING AND DISPENSING BOTTLES

- 1. Thaw MethoCult[™] H4531 at room temperature (15 25°C) or overnight at 2 8°C. Do not thaw at 37°C.
- 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. 2.
- Using a luer lock syringe (3 mL [Catalog #28230] or 6 mL) attached to a 16 Gauge Blunt-End Needle (Catalog #28110), aliquot as 3. 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, stored at 2 - 8°C for up to 1 month, or stored at -20°C. Do not exceed the shelf life of the medium. After thawing aliguoted tubes, mix well and use immediately. Do not re-freeze.

For recommended cell plating concentrations, setup of human CFU assays, and counting and classification of colonies, refer to the Technical Manual: Human Colony-Forming Unit (CFU) Assays Using MethoCult™ (Document #10000005589), available at www.stemcell.com, or contact us to request a copy.



Related Products

For related products, including specialized culture and storage media, supplements, antibodies, cytokines, and small molecules, visit www.stemcell.com/HSPCworkflow, or contact us at techsupport@stemcell.com. For available fresh and cryopreserved peripheral blood, cord blood, and bone marrow products, visit www.stemcell.com/primarycells.

References

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Eaves C & Lambie K. (1995) Atlas of Human Hematopoietic Colonies. Vancouver: STEMCELL Technologies Inc. (Catalog #28700)

Nissen-Druey C et al. (2005) Human hematopoietic colonies in health and disease. Basel, Switzerland: S. Karger Medical and Scientific Publishers. (Catalog #28760)

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