Agar Leukocyte Conditioned Medium Source of colony-stimulating factors for assays of human hematopoietic progenitor cells Scientists Helping Scient TOLL FREE PHONE 1 800 Ge INFO@STEMCELL.COM • T FOR GLOBAL CONTACT DET

Product Description

Agar Leukocyte Conditioned Medium (Agar-LCM) is a source of colony-stimulating factors for assays of human hematopoietic progenitor cells from light density fractions of bone marrow and peripheral blood. It is suitable for the growth of colony-forming unit erythroid (CFU-E), burst-forming unit-erythroid (BFU-E), colony-forming unit-macrophage (CFU-M), colony-forming unit-granulocyte (CFU-G), colony-forming unit-granulocyte, macrophage (CFU-GM) and colony-forming unit-granulocyte, erythroid, macrophage, megakaryocyte (CFU-GEMM) when added to MethoCult[™] medium at a final concentration of 10% with the addition of erythropoietin (EPO; Catalog #02625). Agar-LCM is prepared using normal human peripheral blood leukocytes in an agar-containing medium.

Properties

Contains:

Storage:Store at -20°C.Shelf Life:Stable until expiry date (EXP) on label.

- Agar Leukocyte Conditioned Medium
 - Fetal bovine serum (10%)
 - Iscove's MDM
 - 1 x 10^4 2-Mercaptoethanol (ME)

Please refer to the Safety Data Sheet (SDS) for hazard information.

Handling / Directions For Use

Thaw Agar-LCM at room temperature (15 - 25°C) or overnight at 2 - 8°C.

NOTE: After thawing, some particulate matter may appear; the product may be clarified by centrifugation. There should be no loss in bioactivity as a result of this procedure. Keep on ice while in use.

Preparation of MethoCult[™] Methylcellulose-based Medium Containing Agar-LCM for Detection of Human Hematopoietic Progenitor Cells (BFU-E, CFU-GM, CFU-GEMM):

- 1. Thaw 80 mL bottle of MethoCult[™] H4230 (Catalog #04230) at room temperature (15 25°C) or overnight at 2 8°C. Mix contents by vigorous shaking.
- 2. Add 10 mL of Agar-LCM. Add EPO to yield a final concentration of 3 U/mL. Add Iscove's Modified Dulbecco's Medium (IMDM; Catalog #36150) to give a total volume of 100 mL.
- 3. Mix medium by vigorous shaking for 1 2 minutes. Let stand for 5 minutes to allow bubbles to rise to the top.
- 4. Dispense 3 mL of medium into sterile culture tubes using a 6 or 12 mL syringe attached to a 16 Gauge Blunt-End Needle (Catalog #28110).

NOTE: If not used immediately, cap tubes tightly and store at -20°C. Thaw tubes at room temperature (15 - 25°C).

- 5. Prepare a suspension of human cells in Iscove's MDM with 2% FBS (Catalog #07700) at 10X the final concentration required for plating.
- 6. Add 0.3 mL of cells to 3.0 mL of MethoCult™ medium.

NOTE: The addition of cells at a 1:10 (v/v) ratio to methylcellulose-based medium maintains optimal medium viscosity.

- 7. Vortex tubes to ensure contents are thoroughly mixed. Let stand for 2 3 minutes to allow bubbles to rise to the top.
- 8. Dispense 1.1 mL of MethoCult[™] mixture containing cells into each of two 35 mm Culture Dishes (Catalog #27100) using a 3 mL syringe attached to a 16 Gauge Blunt-End Needle.
- 9. Incubate for 12 14 days at 37°C in 5% CO_2 with \geq 95% humidity.
- 10. Score colonies using an inverted microscope.

NOTE: For additional information refer to the Technical Manual: Human Colony-Forming Unit (CFU) Assays Using MethoCult[™] (Document #28404), available on our website at www.stemcell.com or contact us to request a copy.



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