

MyeloCult™ H5100

Medium for long-term culture of human cells

Catalog # 05150

500 mL



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Product Description

MyeloCult™ H5100 is optimized for initiation and maintenance of myeloid long-term cultures of human hematopoietic cells and stromal cell feeder layers. The sera used in this formulation have been pre-tested and selected for their ability to support long-term myelopoiesis by primitive human hematopoietic cells (e.g. in long-term culture-initiating cell [LTC-IC] assays).

MyeloCult™ H5100 requires the addition of freshly prepared Hydrocortisone (Catalog #74142).

Properties

- Storage:** Store at -20°C.
- Shelf Life:** Stable until expiry date (EXP) on label.
- Contains:**
- Fetal bovine serum
 - 2-Mercaptoethanol
 - Minimum Essential Medium (MEM) Alpha
 - Supplements

Handling / Directions For Use

For detailed instructions refer to the Technical Manual: Human Long-Term Culture-Initiating Cell (LTC-IC) Assay, available at www.stemcell.com or contact us to request a copy.

1. Thaw MyeloCult™ H5100 medium in refrigerator (2 - 8°C), at room temperature (15 - 25°C), or at 37°C until just thawed. Mix well by swirling.
NOTE: If not used immediately, store at 2 - 8°C for up to 1 month.
NOTE: If precipitate or crystals are present after thawing, allow the medium to equilibrate to room temperature or place at 37°C for up to 1 hour and mix well by swirling. If precipitate or crystals persist, centrifuge or filter using a 0.2 - 0.22 µm low protein binding polyethersulfone (PES) filter unit (e.g. Fisher 09-741-04 [0.2 µm, 250 mL]; Fisher SCGP00525 [0.22 µm, 50 mL]).
2. Add freshly prepared and filter-sterilized hydrocortisone to a final concentration of 10⁻⁶ M.
NOTE: After addition of hydrocortisone, the medium is stable for up to 1 week when stored at 2 - 8°C.
3. Establish cultures in tissue culture-treated plasticware to promote cell attachment and adherent layer formation.
NOTE: During medium changes, care should be taken to avoid disturbing the adherent layer. Do not touch the bottom of the dish when pipetting; instead, rest the pipette against the side of the dish. When dispensing, allow medium to run slowly down the side of the dish rather than directly onto the surface of the adherent layer.

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 or contact us at techsupport@stemcell.com. For available fresh and cryopreserved peripheral blood, cord blood, and bone marrow products in your region, visit www.stemcell.com/primarycells.

References

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