

Human LDL



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Low-density lipoproteins pre-screened for hematopoietic cell growth

Catalog # 02698

5 mg

Product Description

This product is a human plasma-derived low-density lipoprotein (LDL)-based culture supplement that has been pre-screened for the culture, expansion, and colony assay of human hematopoietic and non-hematopoietic cells in serum-free culture media. It promotes the proliferation and survival of human hematopoietic and other progenitor cells in culture, resulting in increased cell output in expansion cultures and increased colony numbers and/or colony size in colony assays.

This product is recommended for:

- Expansion of total nucleated cells, CD34+ cells, and colony-forming cells in cultures of purified CD34+ or lineage-depleted cord blood and bone marrow cells in StemSpan™ SFEM (Catalog #09600) and StemSpan™ H3000 (Catalog #09800) serum-free expansion media, supplemented with StemSpan™ CC100 (Catalog #02690) or StemSpan™ CC110 (Catalog #02697) cytokine cocktails or StemSpan™ CD34+ Expansion Supplement (10X; Catalog #02691).
- Development of megakaryocytes in cultures of purified CD34+ or lineage-depleted cord blood and bone marrow cells in StemSpan™ SFEM and StemSpan™ H3000 serum-free expansion media, supplemented with StemSpan™ Megakaryocyte Expansion Supplement (100X; Catalog #02696)
- Hematopoietic colony formation in serum-free MethoCult™ media (MethoCult™ SF H4436, MethoCult™ SF H4536, MethoCult™ SF H4236)
- Megakaryocyte colony formation in collagen-based MegaCult™-C medium (e.g. Catalog #04961)

Properties

Storage: Store at 2 - 8°C. Do not freeze.

Shelf Life: Stable for 3 months from date of receipt.

Contains:

- A clear micro-emulsion of low-density lipoproteins in an aqueous solution
- 5 mg/mL protein as determined by modified Lowry Method using bovine serum albumin as a standard

Human LDL used in this product has been derived from human plasma. Donors have been tested and found negative for hepatitis B surface antigen (HBsAg), hepatitis B core antigen (HBc) antibodies, hepatitis C virus (HCV) antibodies, and HIV-1 & 2 antibodies. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

Handling / Directions For Use

1. Warm to room temperature (15 - 25°C) before use. Do not freeze.

NOTE: If the product is cloudy, it is recommended to add Human LDL to the culture medium then filter the medium using a sterile 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]). Alternatively, if filtration of the medium is not possible, Human LDL can be centrifuged and only the supernatant added to the culture medium.

2. Use at a concentration between 20 and 40 µg/mL in expansion cultures of purified human hematopoietic cells in StemSpan™ SFEM (Catalog #09600) and StemSpan™ H3000 (Catalog #09800), supplemented with growth factors and other supplements, and in colony assays in serum-free MethoCult™ media and MegaCult™-C media. Optimal concentrations in other applications should be established by titration.

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.

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