

StemSpan™ Myeloid Expansion Supplement II (100X)

Serum-free culture supplement for expansion and differentiation of human monocytes

Catalog # 02694

1 mL



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Product Description

StemSpan™ Myeloid Expansion Supplement II (100X) contains a combination of recombinant human cytokines formulated to selectively promote the expansion and differentiation of human myeloid progenitor cells, generating large numbers of CD14+ monocytes from CD34+ cells isolated from human cord blood (CB) samples.

StemSpan™ Myeloid Expansion Supplement II (100X) is intended for use in combination with StemSpan™ SFEM II (Catalog #09605) serum-free expansion medium.

Advantages:

- Promotes the production of hundreds of CD14+ monocytes per input CD34+ human CB cell in 14-day liquid cultures.
- Supplied as a 100X concentrate. After thawing and mixing, the tube contents can be added directly to any hematopoietic cell expansion medium.

Properties

Storage: Store at -20°C.

Shelf Life: Stable for 15 months from date of manufacture (MFG) on label.

Contains:

- Recombinant human fms-like tyrosine kinase 3 ligand (Flt3L)
- Recombinant human stem cell factor (SCF)
- Recombinant human thrombopoietin (TPO)
- Recombinant human macrophage colony-stimulating factor (M-CSF)
- Recombinant human granulocyte/macrophage colony-stimulating factor (GM-CSF)
- Supplements

Handling / Directions For Use

1. Thaw StemSpan™ Myeloid Expansion Supplement II (100X) at room temperature (15 - 25°C) until just thawed and mix well.

NOTE: If necessary, centrifuge for 30 seconds to recover liquid from cap.

NOTE: Once thawed, store supplement at 2 - 8°C for up to 1 month. Alternatively, aliquot and store at -20°C. After thawing aliquots, do not re-freeze.

2. Add StemSpan™ Myeloid Expansion Supplement II (100X) to culture medium at a 1 in 100 dilution (e.g. add 1 mL of Supplement to 99 mL of StemSpan™ SFEM II). Mix well.

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.

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