

# StemSpan™ CD34+ Expansion Supplement (10X)

Serum-free culture supplement for expansion of human CD34+ hematopoietic cells

Catalog # 02691 10 mL



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## Product Description

StemSpan™ CD34+ Expansion Supplement (10X) contains a combination of recombinant human cytokines and other additives formulated to selectively promote the expansion of CD34+ cells isolated from human cord blood (CB) and bone marrow (BM) samples.

We recommend using StemSpan™ CD34+ Expansion Supplement (10X) in combination with any of the following StemSpan™ media:

- StemSpan™ SFEM (Catalog #09600)
- StemSpan™ SFEM II (Catalog #09605)
- StemSpan™ H3000 (Catalog #09800) xeno-free and serum-free medium
- StemSpan™-ACF (Catalog #09805) human and animal component-free medium

Advantages:

- Formulated to selectively expand and produce large numbers of human CD34+ hematopoietic cells in liquid cultures initiated with CD34+ CB or BM cells.
- Optimized for use with StemSpan™ media. When combined with StemSpan™ SFEM II in particular, supports at least 50% higher expansion of CD34+ human CB cells when compared to other serum-free media on the market.
- Supplied as a 10X concentrate. After thawing and mixing, the tube contents can be added directly to any hematopoietic cell expansion medium of choice

## Properties

**Storage:** Store at -20°C to -70°C.

**Shelf Life:** Stable until expiry date (EXP) on label.

**Contains:**

- Recombinant human fms-like tyrosine kinase 3 ligand (Flt3L)
- Recombinant human stem cell factor (SCF)
- Recombinant human interleukin 3 (IL-3)
- Recombinant human interleukin 6 (IL-6)
- Recombinant human thrombopoietin (TPO)
- Other additives

## Handling / Directions For Use

1. Thaw StemSpan™ CD34+ Expansion Supplement (10X) at room temperature (15 - 25°C) until just thawed and mix well.  
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™ CD34+ Expansion Supplement (10X) to culture medium at a 1 in 10 dilution (e.g. add 10 mL of Supplement to 90 mL of culture medium).

### ASSESSMENT OF HEMATOPOIETIC CELLS

Assessment of CD34+ cells before and after culture may be performed by flow cytometry using the following fluorochrome-conjugated antibody clones:

- Anti-Human CD34 Antibody, Clone 581 (Catalog #60013) or Clone 563 (Catalog #60119) or Clone 8G12 (Catalog #60121)
- Anti-Human CD45 Antibody, Clone HI30 (Catalog #60018) or Clone 2D1 (Catalog #60123)

## 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](http://www.stemcell.com/HSPCworkflow) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com). For available fresh and cryopreserved peripheral blood, cord blood, and bone marrow products in your region, visit [www.stemcell.com/primarycells](http://www.stemcell.com/primarycells).

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