

StemSpan™ T Cell Generation Kit

For expansion and differentiation of human CD34⁺ hematopoietic progenitor cells to T cells

Catalog #09940

1 Kit



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Product Description

StemSpan™ T Cell Generation Kit has been developed to differentiate CD34⁺ cells isolated from cord blood (CB) to T cells, without use of stromal cells. This kit typically promotes the expansion of thousands of CD3⁺TCRαβ⁺ T cells in cultures initiated with CD34⁺ human CB cells. For differentiating hPSC-derived CD34⁺ cells, STEMdiff™ T Cell Kit (Catalog #100-0194) is required.

StemSpan™ Lymphoid Progenitor Expansion Supplement (10X) contains a combination of recombinant human cytokines and other additives formulated to selectively promote the expansion and differentiation of CD34⁺ cells to CD7⁺CD5⁺ lymphoid progenitor cells. Additionally, StemSpan™ T Cell Progenitor Maturation Supplement (10X) enables further maturation of lymphoid progenitor cells to double-positive (DP) cells. It also supports maturation of DP cells to CD8 SP T cells with additional stimuli. StemSpan™ Lymphoid Progenitor Expansion Supplement (10X) and StemSpan™ T Cell Progenitor Maturation Supplement (10X) are intended for use in combination with StemSpan™ SFEM II medium, and on plates coated with StemSpan™ Lymphoid Differentiation Coating Material (100X).

Product Information

The following products are components of StemSpan™ T Cell Generation Kit (Catalog #09940) and are also available for individual sale.

PRODUCT NAME	CATALOG #	QUANTITY	STORAGE	SHELF LIFE
StemSpan™ Lymphoid Progenitor Expansion Supplement (10X) [†]	09915	5 mL	Store at -20°C.	Stable for 1.5 years from date of manufacture (MFG) on label.
StemSpan™ Lymphoid Differentiation Coating Material (100X) [†]	09925	2 x 250 µL	Store at -20°C.	Stable for 1.5 years from date of manufacture (MFG) on label.
StemSpan™ T Cell Progenitor Maturation Supplement (10X)	09930	12.5 mL	Store at -20°C.	Stable for 12 months from date of manufacture (MFG) on label.
StemSpan™ SFEM II ^{††}	09605	2 x 100 mL	Store at -20°C.	Stable for 1.5 years from date of manufacture (MFG) on label.

*500 mL format is also available (Catalog #09655).

[†]This product contains material derived from human plasma. Donors have been tested and found negative for hepatitis B surface antigen (HBsAg) and HIV-1 antibodies and/or HIV-1 antigen. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

Directions for Use

For complete instructions, refer to the Technical Manual for STEMdiff™ or StemSpan™ T Cell Kits (Document #10000007541), available at www.stemcell.com or contact us to request a copy.

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED. FOR ADDITIONAL INFORMATION ON QUALITY AT STEMCELL, REFER TO WWW.STEMCELL.COM/COMPLIANCE.

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