

StemSpan™-ACF

Human and Animal Component-Free Medium for the In Vitro Culture and Expansion of Human Hematopoietic Cells

Catalog # 09805	100 mL
09855	500 mL



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Product Description

StemSpan™-ACF is an animal component-free medium for the in vitro culture and expansion of human hematopoietic cells. This medium contains recombinant proteins and synthetic components. It does not contain serum or other human- or animal-derived components. Recombinant hematopoietic growth factors, required for the optimal growth and expansion of hematopoietic cells, have not been added to StemSpan™-ACF. This allows users the flexibility to add growth factors and other supplements according to their requirements.

Properties

Storage: Store at 2 - 8°C.

Shelf Life: Stable for 12 months from date of manufacture (MFG) on label.

Contains: StemSpan™-ACF contains only recombinant proteins and synthetic components.

Handling / Directions For Use

1. Add desired cytokines, growth factors and other components to StemSpan™-ACF and mix well.
NOTE: Added components and cells in sterile cell culture medium (e.g. Iscove's MDM or DMEM) should not exceed ~10% of total volume.
2. Add cells, mix well, and set up cultures as desired.

Notes and Tips

Selection of an optimal growth factor combination is dependent upon the source and type of cells and the experimental objectives of the researcher. StemSpan™ expansion supplements, described below, are suitable for use with StemSpan™-ACF.

- StemSpan™ Erythroid Expansion Supplement (100X) (Catalog #02692)
 - Expansion and differentiation of human erythroid progenitor cells
 - Contains: rh SCF, rh IL-3, rh EPO
- StemSpan™ CD34+ Expansion Supplement (10X) (Catalog #02691)
 - Culture and expansion of CD34+ progenitor cells
 - Contains: rh SCF, rh TPO, rh IL-3, rh IL-6, rh Flt3 ligand, other additives
- StemSpan™ Megakaryocyte Expansion Supplement (100X) (Catalog #02696)
 - Culture and expansion of human megakaryocyte progenitors and megakaryocytes
 - Contains: rh SCF, rh TPO, rh IL-6, rh IL-9
- StemSpan™ CC100 (Catalog #02690)
 - Culture and expansion of human hematopoietic cells including CD34+ cells, stem cells and progenitor cells
 - Contains: rh Flt3 ligand, rh SCF, rh IL-3, rh IL-6
- StemSpan™ CC110 (Catalog #02697)
 - Culture and expansion of human hematopoietic cells including CD34+ cells, stem cells and progenitor cells
 - Contains: rh Flt3 ligand, rh SCF, rh TPO

SCF = Stem cell factor; EPO = Erythropoietin; TPO = Thrombopoietin; rh = recombinant human; IL = interleukin; Flt = fms-like tyrosine kinase

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