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1. Description

This product is for research use only.

Components	1 vial StemMACS HSC Expansion Cocktail, human: Recombinant human Flt3-Ligand, recombinant human stem cell factor (SCF), and recombinant thrombopoietin (TPO).
Quality control	Functionality assay: Satisfactory <i>ex vivo</i> expansion of human CD34 positive cells (combination of StemMACS HSC Expansion Medium XF and StemMACS HSC Expansion Cocktail).
Capacity	For the preparation of 100 mL of supplemented HSC expansion medium.
Product format	Lyophilized without carrier protein from a 0.2 µm filtered buffer solution.
Storage	Lyophilized StemMACS HSC Expansion Cocktail, human should be stored at -20 °C. The expiration date is indicated on the vial label.

1.1 Background information

StemMACS HSC Expansion Cocktail, human contains a combination of recombinant human cytokines necessary for the proliferation of human hematopoietic stem and progenitor cells. In combination with StemMACS HSC Expansion Medium XF, StemMACS HSC Expansion Cocktail optimally supports the proliferation of early CD34⁺ HSCs.

1.2 Applications

- Culture and expansion of human CD34⁺ hematopoietic stem cells.

1.3 Reagent and instrument requirements

- StemMACS HSC Expansion Medium XF, human (100 mL bottle, # 130-100-473 or 500 mL bottle, # 130-100-463)
- (Optional) CD34 MicroBead Kit, human (# 130-046-702)

2. Protocol

2.1 Reconstitution

Reconstitute the lyophilized StemMACS HSC Expansion Cocktail with 1 mL deionized sterile-filtered water. For longer storage, prepare aliquots and store at -20 °C. Avoid repeated freeze-thaw cycles. Thaw aliquots of reconstituted StemMACS HSC Expansion Cocktail at 2-8 °C prior to use.

For optimal expansion aseptically add the reconstituted cytokine cocktail to 100 mL of culture medium.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

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