

(Ref. 5510)

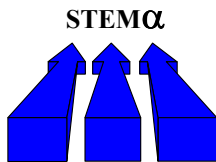


STEMα.A

Serum-free liquid medium, without cytokine, for culture and cellular expansion of human haematopoietic progenitors from peripheral blood, bone marrow, umbilical cord blood and CD34+ cells.

Serum free medium to support Granulopoiesis – Erythropoiesis – Monopoiesis – Megakaryocytopoiesis from haematopoietic progenitor cells, according to your cytokine composition.

- Suggestion ☞ Evaluation of clonogenic capacity at D+7, D+14, D+21
- Composition ☞ IMDM, bovine serum albumin, rh-insulin, nucleosides, synthetic-lipids, L-glutamine, 1-monothiglycerol
- Performance ☞ We suggest renewing the medium every seven days
- Plate ☞ CD34+ cells : 1000 cells / ml
Mononucleated cells : 0,5 x 10⁵ to 1 x 10⁵ cells / ml
- Count ☞ According to your own experimental conditions
- Storage ☞ Stable 24 months at -20 °C ☞ Stable 6 months at +4 °C
☞ Thaw at +4 °C ☞ Never thaw at +37 °C
☞ light sensitive product ☞ Before aliquoting, homogenize
- Quality system ☞ ISO 9001(2000) conform to ISO 13485(2003)
- Warning ☞ This product is designed for in vitro use only.



PRODUCT IDENTIFICATION

Product	Reference	Volume
STEMα.A	5510	100 ml
STEMα.A	5510-5	500 ml

Ref. Hermitte F., Brunet de la Grange P., Belloc F., Praloran V. and Ivanovic Z. (2006) Very low O2 concentration (0.1%) favors G0 return dividing CD34+ cells. *Stem Cells*, **24**, 1, 2006, 65-73.

Ref. Ivanovic Z, Hermitte F, Brunet de la Grange P, Dazey B, Belloc F, Lacombe F, Vezon G and Praloran V. (2004) Simultaneous maintenance of human cord blood SCID-repopulating cells and expansion of committed progenitors at low O2 concentration (3%). *Stem Cell* **03** -0131.R1.

Ref. De Bruyn C., et al (2003). Ex vivo myeloid differentiation of cord blood CD34+ cells : comparison of four serum-free media containing bovine or human albumin. *Cytotherapy*, **5**, no 2, 153-160 .

Ref. De Bruyn C., et al (2003). Ex vivo expansion of neutrophil precursor cells from fresh and cryopreserved cord blood cells. *Cytotherapy*, **5**, no 1, 87-98.

Ref. : Desplat V., et al. (2002). Hypoxia modifies proliferation and differentiation of CD34+ CML cells. *STEM CELL* 2002, **20**, 347-354.

Ref. : Lataillade J-J., et al. (2000). Chemokine SDF-1 enhances circulating CD34+ cell proliferation in synergy with cytokines : possible role in progenitor survival. *Blood*, **95**, 756-768.

Ref. : Lepage A., Leboeuf M., Cazenave J-P., De la Salle C. Lanza F. and Uzan G. (2000). The al1bb3 integrin and GPIb-V-IX complex identify distinct stages in the maturation of CD34+ cord blood cells to megakaryocytes. *Blood*, **96**, 13, 4169-4177.

Ref. : Albanese P., Leboeuf M., Rosa J-P and Uzan G. (2000). Identification of a GATA-overlapping sequence within the enhancer of the murine GPIIb promoter that induces transcriptional deregulation in human K562 cells. *Blood*, **96**, 4, 1348-1357.

Ref. Campos L. et al. Diagnosis of essential thrombocythemia by short term culture and flow cytometry, Abstract nr 0556, Parthen Impact.

Ref. Ivanovic Z. et al. Culture of cord blood CD34 cells in moderate hypoxia (3% O2) with a low dose of IL3 better expands pre-CFCs than at 20% O2 without modifying the expansion of CFCs. Abstract nr 0158, Parthen Impact.

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