

StemSpan™ Erythroid Expansion Medium (ACF)

Animal component-free medium for culture and expansion of human erythroid cells

Catalog # 09955

500 mL



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Product Description

StemSpan™ Erythroid Expansion Medium (ACF) is an animal component-free medium for the in vitro culture and expansion of human hematopoietic cells. When supplemented with StemSpan™ Erythroid Expansion Supplement (100X; Catalog #02692), this medium supports the expansion and erythroid differentiation of human hematopoietic progenitor cells into CD71+ and Glycophorin A+ erythroblasts. This medium only contains recombinant proteins and synthetic components; it does not contain serum or other human- or animal-derived components.

- Optimized for the expansion and erythroid differentiation of human hematopoietic progenitor cells when used in combination with StemSpan™ Erythroid Expansion Supplement (100X)
- Generates thousands of CD71+ and Glycophorin A+ erythroblasts per CD34+ cell from cord blood, bone marrow, or peripheral blood

Properties

Storage: Store at 2 - 8°C. Do not freeze.

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

Contains: This product contains only recombinant proteins and synthetic components.

Handling / Directions For Use

1. Warm StemSpan™ Erythroid Expansion Medium (ACF) to room temperature (15 - 25°C) before use by transferring the required amount of medium to a smaller container (e.g. 50 mL conical tube, Catalog #38010).

NOTE: Do not heat up the whole bottle if only a small amount of medium is required for the experiment, as frequent temperature changes may affect the performance of the medium.

2. Add StemSpan™ Erythroid Expansion Supplement (100X; Catalog #02692) at a 1 in 100 dilution.
3. If desired, add other cytokines, growth factors, or other components and mix well.
4. Add cells, mix well, and set up cultures as desired. A cell concentration of 10,000 CD34+ cells/mL is recommended.

Notes and Tips

This medium has been optimized for use with StemSpan™ Erythroid Expansion Supplement (100X; Catalog #02692), which contains recombinant human (rh) cytokines (rh SCF, rh IL-3, and rh EPO) to promote the erythroid outgrowth of human hematopoietic progenitor cells and to generate large numbers of CD71+/Glycophorin A+ erythroblasts in culture.

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