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User's Guide

Human Cord Blood CD34⁺ Enriched Hematopoietic Stem Cells

The following describes the preferred methods for the thawing and subsequent handling of human cord blood CD34⁺ enriched hematopoietic stem cells

Note: Keep cells and reagents at room temperature after the first step.

1. Incubate cryovials in 37°C water bath with gentle agitation until ice is nearly melted.
2. Immediately transfer cells to 15 ml conical tube.
3. Add volume of Buffer equal to ½ of original cell suspension volume in small aliquots over 5 min. Gently mix cell suspension after each small aliquot addition. [Example: for 1.0 ml cell suspension, add 0.5 ml buffer in 5 x 0.1 ml aliquots over 5 min]
3. Incubate cells at room temperature for 5 min.
4. Repeat steps 3 and 4 above.
5. Bring total cell suspension volume to 10 ml with Buffer (using bulk addition).
6. Centrifuge 10 min. at 200g to 300g.
7. Remove supernatant fluid, being careful to leave cell pellet undisturbed.
8. Add media of choice and gently suspend cell pellet with sterile pipette.

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