

Human Cord Blood CD34⁺ Cells

Positively Selected (Single Donor)

Catalog #	Unit Size (cells/vial)
0234-001S	0.1 x 10 ⁶
0234-101S	0.2 x 10 ⁶
0234-201S	0.5 x 10 ⁶
0234-301S	1.0 x 10 ⁶

Product Description

Cryopreserved cord blood CD34⁺ cells have been isolated from individual (single) human cord blood units using immunomagnetic cell separation techniques. These cells are positively selected using an antibody cocktail that targets the CD34 antigen. Cord blood CD34⁺ cells are functionally pre-qualified in the CFC (colony-forming cell) assay using ReachBio's ColonyGEL™ methylcellulose-based media. The frequency of myeloid and erythroid progenitors, as well as a recommended plating concentration for the CFC assay, are provided for each batch of these REACHBIO QUALIFIED™ cells (see Certificate of Analysis).

Sample Collection and Processing

Umbilical cord blood is collected in a 250 mL collection bag containing CPD (citrate-phosphate-dextrose) anticoagulant (25 mL/bag). Cord blood is processed through volume reduction by density centrifugation and CD34⁺ cells positively selected from the volume-reduced unit.

Cord blood is processed within 24-30 hours of collection. Maternal donors have been screened to be negative for HIV and HBs Ag.

Purity

Purity of cord blood CD34⁺ cells is ≥90% as measured by flow cytometric analysis.

Stability and Storage

- Cells are cryopreserved in CryoStor® CS5.
- Cells are stable for long-term storage at -152°C or in the gaseous phase of liquid nitrogen.
- Storage at -80°C is not recommended. Once thawed, the cells must be used immediately and have a finite life span in culture.

Thawing Protocol

The thawing protocol can be found on our website at www.reachbio.com/protocols, by emailing techsupport@reachbio.com or by contacting customer service at 1.206.420.0300.

Warning

Primary cells from human sources are a potential biohazard, treat as potentially infectious. All human sourced products should be handled at the Biological Safety Level 2 to minimize exposure of potentially infectious products. If you require further information, please contact your site safety officer.

Limited Product Warranty

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