

Cryopreserved Product

Cord Blood CD34+ Stem Cells, Single Donor

Catalog#	CB3400.5C	0.5 million cells
	CB3401C	1.0 million cells
	CB3402C	2.0 million cells
	CB3402.5C	2.5 million cells

Product Description

Human Umbilical Cord Blood CD34+ Stem/Progenitor Cells are positively selected from umbilical cord blood mononuclear cells.

Whole umbilical cord blood is needle aspirated from the umbilical cord vein using a cord blood collection bag containing 35 mL of the anticoagulant citrate phosphate double dextrose (CP2D). Mononuclear cells are then enriched from the cord blood using a density gradient centrifugation protocol. CD34+ hematopoietic stem cells (HSCs) are then selected using immunomagnetic anti-CD34 microbeads from the mononuclear cell pool, leaving a highly pure population of CD34+ stem and progenitor cells.

Cells were obtained using Institutional Review Board (IRB) approved consent forms and protocols.

Cryopreservation

Cryopreserved products allow for prolonged storage before use. Cell products contain 10% DMSO to minimize cell death during freezing. All cryopreserved products are stored in containers designed and tested for ultra-low temperatures at long time intervals. We normally ship cryopreserved items on dry ice, but can also use a cryoshipper at the customer's request.

Sample Collection and Processing

All samples are collected at nearby partner hospitals or clinics. Samples are then quickly processed in our on-site laboratory to achieve maximum viability and quality. Cryopreserved cells are frozen at -1°C/minute in a -80°C freezer, and then transferred to liquid nitrogen.

Infectious disease testing for HIV, HBV, and HCV is performed on a sample of cord blood by a CLIA-certified lab.

Format

Isolated stem/progenitor cells are frozen in StemSpan™ + 10% DMSO. We can also use freezing media as specified by the customer.

Storage

Cryopreserved cells should be maintained at -135°C or colder (in liquid nitrogen). The cells are warranted for twelve months from the date of receipt if stored at -135°C or colder. Storage of cells at -80°C for less than one month should maintain cell viability but is not covered by the warranty.

Thawing Instructions for Cell Products

Refer to our "How to thaw StemExpress primary cells for optimal viability?" under our Frequently Asked Questions at stemexpress.com/faqs/ to access our online Thawing Protocol.

Warning

This product contains human tissue or other biological material and MUST be handled at Biosafety Level 2 or higher. All biological products should be treated as potentially infectious or contaminated material, even if infectious disease screening reports are negative. Follow universal precautions and wear appropriate personal protective equipment.

Product Warranty

For our product warranty, please review our Terms and Conditions at stemexpress.com/terms-and-conditions/.

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