

Cryopreserved Product

Bone Marrow CD34+ Stem/Progenitor Cells

Catalog#	BM34000.5C	0.5 million cells
	BM34001C	1.0 million cells
	BM34002C	2.0 million cells

Product Description

Human Bone Marrow CD34+ Stem/Progenitor Cells are positively selected from human bone marrow mononuclear cells.

Whole bone marrow is collected from the posterior iliac crest into a syringe containing the anticoagulant heparin. Mononuclear cells are enriched from the bone marrow suspension by a density gradient centrifugation protocol. CD34+ hematopoietic stem cells (HSCs) are then positively selected from the mononuclear cells using immunomagnetic anti-CD34 microbeads, leaving highly purified 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 our Stem Cell Collection Center. Samples are then quickly processed at 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 donor blood. Only samples with negative results within 90 days of collection are shipped unless approved by the customer. All testing is performed by a CLIA-certified lab.

Format

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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