

Cryopreserved Product

Mobilized Peripheral Blood CD34+ Stem/Progenitor Cells, Plerixafor

Catalog#	MLEP34000.2C	0.2 million cells
	MLEP34001C	1 million cells
	MLEP34005C	5 million cells
	MLEP34010C	10 million cells
	MLEP34020C	20 million cells

Product Description

Human Mobilized Peripheral Blood CD34+ Stem/Progenitor Cells are positively selected from mobilized peripheral blood mononuclear cells.

Mobilized Leukopaks[®] are collected using the Spectra Optia[®] Apheresis System from donors that are injected with 240µg/kg of Plerixafor the day before collection. Mononuclear cells are enriched from the Mobilized Leukopak using an RBC lysis protocol. CD34+ hematopoietic stem cells (HSCs) are then selected for 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 on-site at our Stem Cell Collection Center, or at nearby partner hospitals or clinics. Apheresis donors are transfused with ACD-A during the collection process. 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 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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