



1743 Creekside Drive, Suite 200  
Folsom, CA 95630

530.626.7000 | [www.cgt.global](http://www.cgt.global)

email: [info@cgt.global](mailto:info@cgt.global)

## Cryopreserved Product

### Bone Marrow CD133+ Stem/Progenitor Cells

Catalog#	BM133000.5C	0.5 million cells
	BM133001C	1.0 million cells
	BM133002C	2.0 million cells
	BM133005C	5.0 million cells

## PRODUCT DESCRIPTION

Human Bone Marrow CD133+ Stem/Progenitor Cells are positively selected from human bone marrow mononuclear cells (MNCs).

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. CD133+ hematopoietic stem cells (HSCs) are then positively selected from the mononuclear cells using immunomagnetic anti-CD133 microbeads, leaving highly purified CD133+ 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 the Technical Support page at [cgt.global/technical-support/](http://cgt.global/technical-support/) to access our online Thawing Protocols.

## 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 [cgt.global/terms-and-conditions/](http://cgt.global/terms-and-conditions/).

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