

Primary Cells

Human Peripheral Blood Leukopak, Frozen



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Product Description

Leukapheresis is performed on normal donors using Institutional Review Board (IRB)-approved consent forms and protocols. Approximately two to three blood volumes are processed using the Spectra Optia® Apheresis System (unless otherwise requested) to produce a full-sized Leukopak. The collected product is then cryopreserved in a controlled-rate freezer.

Donor Status: Normal

Characterization Criteria: Cell count, viability, donor virus testing, age, sex, ethnicity, weight, height, smoking status, other information

Format: Product is drawn into a sample collection bag containing anticoagulant and is frozen in CryoStor® CS10.

Anticoagulant: Acid-citrate-dextrose solution A (ACDA)

For donor details, refer to the lot-specific Certificate of Analysis.

Stability and Storage

Product is shipped on dry ice with liquid nitrogen shipping available upon request. For best results, use product immediately upon receipt. Otherwise, store at -135°C or colder.

Precautions

Donor Screening: Donors are screened for HIV-1, HIV-2, hepatitis B, and hepatitis C.

Cryopreserved products are shipped with negative test results from donor screening that is performed within 90 days of collection.

Donors have been tested and found to be negative for HIV-1, HIV-2, hepatitis B, and hepatitis C prior to donation. As testing cannot completely guarantee that the donor was virus-free, THIS PRODUCT SHOULD BE TREATED AS POTENTIALLY INFECTIOUS and only used following appropriate handling precautions such as those described in biological safety level 2.

Storage of frozen cell products in the vapor phase of a liquid nitrogen storage tank is recommended. Storage in the liquid phase can result in cross-contamination if the vial breaks or is not sealed properly. Storage in the liquid phase also increases the potential for liquid nitrogen to penetrate the vial and cause it to explode when removed from storage. Use of a face shield is required as a safety precaution when transferring cells from one container to another. When handling this product, do not use sharps such as needles and syringes.

STEMCELL cannot guarantee the biological function or any other properties associated with performance of cells in a researcher's individual assay or culture systems. STEMCELL assures the cells will meet the specifications only when assessed immediately after thawing (before washing) by our test methods.

FOR IN VITRO RESEARCH USE ONLY. NOT APPROVED FOR DIAGNOSTIC, THERAPEUTIC, OR CLINICAL APPLICATIONS.
NOT APPROVED FOR HUMAN OR VETERINARY USE IN VIVO.

Handling / Directions for Use

IMPORTANT: To confirm the number of cells provided, a viable cell count must be done immediately after thawing. Work quickly once the Leukopak has been thawed to ensure high viability and recovery. Use sterile technique when processing thawed Leukopak.

1. Warm sufficient volume of HBSS Modified (Without Ca++ and Mg++) + 10% fetal bovine serum (FBS) in a 37°C water bath. Wipe with 70% ethanol and transfer to the biosafety cabinet.
2. Add DNase I Solution to prepare thawing medium (HBSS Modified [Without Ca++ and Mg++]) + 10% FBS + 0.1 mg/mL DNase I Solution [final concentration]).

NOTE: Thawing medium must be prepared fresh before each use.

3. Remove Leukopak from liquid nitrogen storage and immediately place in a 37°C water bath. Fully submerge the Leukopak and do not agitate the bag while it is thawing.
4. When the Leukopak is mostly thawed (with a small amount of ice remaining), remove from the water bath and wipe the outside of the bag with 70% ethanol.
5. In a biosafety cabinet, slowly transfer the cell suspension into a sterile bottle that can contain 5 - 10 times the volume of the Leukopak using the port on the bottom of the cryobag.
6. While gently swirling the cell suspension, add an equal volume of thawing medium dropwise to the bottle.
7. Add one-half volume of thawing medium (relative to original Leukopak volume) to the Leukopak bag. Mix thoroughly and transfer to the cell suspension in the sterile bottle.
8. Slowly add an additional two volumes (relative to original Leukopak volume) of thawing medium to the cell suspension. Mix thoroughly.
9. Remove a small aliquot of cell suspension for counting and viability assessment. See Tips section for performing cell counts with a hemocytometer.
10. Cells are now ready for use in downstream applications.

Tips

For a protocol on performing total nucleated cell counts using a hemocytometer, refer to <https://www.stemcell.com/how-to-count-cells-with-a-hemocytometer>.

Accessory Products

PRODUCT NAME	CATALOG #
HBSS, Modified (Without Ca++ and Mg++)	37250
DNase I Solution (1 mg/mL)	07900
Trypan Blue	07050

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