

# Primary Cells

Human Mobilized Peripheral Blood  
Leukopak, G-CSF, Fresh



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## Product Description

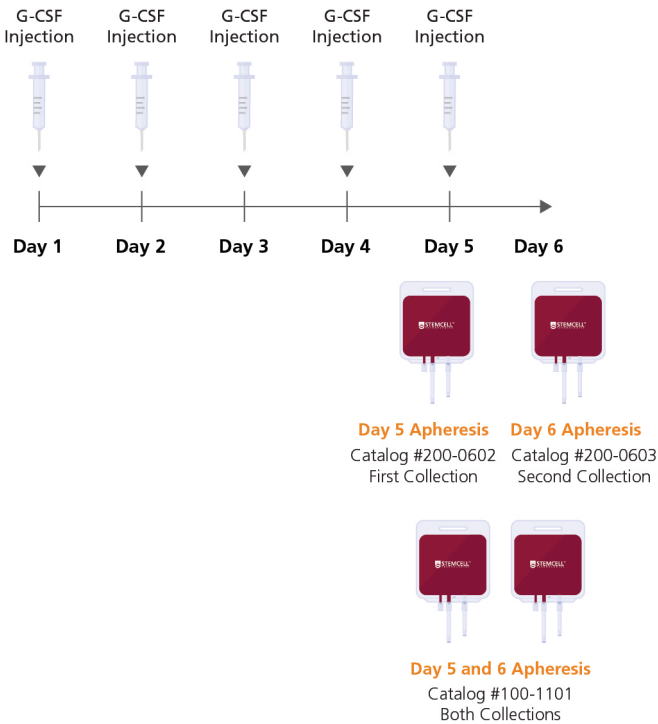
Normal donors are mobilized with 5 doses of granulocyte colony-stimulating factor (G-CSF) at a concentration of up to 10 µg/kg/dose prior to collection. Leukapheresis is then performed on these donors using Institutional Review Board (IRB)-approved consent forms and protocols. Up to two blood volumes are processed using the Spectra Optia® Apheresis System to produce a full-sized Leukopak.

- Donor Status:** Mobilized with G-CSF
- Characterization Criteria:** Donor virus testing, age, sex, ethnicity, weight, height, smoking status, health status
- Format:** Product is drawn directly into a sample collection bag containing anticoagulant.
- Anticoagulant:** Acid-citrate-dextrose solution A (ACDA)

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

### Schematic of G-CSF mobilization and leukapheresis schedule

#### Five-day mobilization regimen



## Ordering Information

FIVE-DAY MOBILIZATION REGIMEN		
COLLECTION	APHERESIS	CATALOG #
First Collection	Day 5	200-0602
Second Collection	Day 6	200-0603
Both Collections	Day 5 and 6	100-1101

## Stability and Storage

Product is shipped in a refrigerated temperature-controlled box and should be used or processed immediately upon receipt.

## Precautions

Donor Screening: Donors are screened for HIV-1, HIV-2, hepatitis B, hepatitis C, HTLV-I/-II, Syphilis, and WNV.

If the donor has been screened within 90 days of donation, the product will be shipped with negative test results from donor screening.

Donors have been tested and found to be negative for HIV-1, HIV-2, hepatitis B, hepatitis C, HTLV-I/-II, Syphilis, and WNV 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. 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.

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

## Directions for Use

**IMPORTANT:** To determine the number of cells provided, a cell count must be done upon receipt and before any processing steps (e.g. washing). Cell loss is expected during wash steps and may be up to 30%. Use sterile technique when processing cells.

Remove a 20  $\mu$ L aliquot of cells for counting. Appropriately dilute in Trypan Blue (to assess viability) or 3% Acetic Acid with Methylene Blue (to assess nucleated cells). For most Leukopak samples, a dilution of 1 in 100 is sufficient. Adjust the dilution if there are more than 100 cells per square of the hemocytometer. See Notes and Tips section for more details on performing cell counts with a hemocytometer.

Platelet and red blood cell (RBC) levels will vary between samples, and further processing may be required prior to use in downstream applications (e.g. slow spins to remove platelets, RBC lysis, or density gradient separation). See Notes and Tips section for an optional RBC Lysis and Platelet Removal protocol (after diluting and centrifuging the sample).

NOTE: SepMate™ tubes are not intended for use with leukapheresis samples.

SepMate™ (IVD) is available as an in vitro diagnostic (IVD) device in certain regions with an intended use of isolating mononuclear cells (MNCs) from whole blood or bone marrow by density gradient centrifugation. SepMate™ is manufactured under a cGMP quality management system compliant with 21 CFR 820. In all other regions, SepMate™ is available for research use only (RUO).

## Notes and 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.html>.

For a protocol on RBC Lysis and Platelet Removal, refer to "How to Process a Leukopak for Downstream Cell Isolation" (Part II: Prepare Leukopak Contents, Option 2), available at <https://www.stemcell.com/leukopak-processing-protocol.html>.

For information on cell isolation from Leukopaks, refer to [www.easysep.com](http://www.easysep.com).

### Accessory Products

PRODUCT NAME	CATALOG #
3% Acetic Acid with Methylene Blue	07060
Ammonium Chloride Solution	07800
Hausser Scientific™ Bright-Line Hemocytometer	100-1181
Lymphoprep™	07811
Trypan Blue	07050

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