

## Fresh Product

### Peripheral Blood Leukopak

Catalog#	LE001F	1.0x10 <sup>9</sup> million cells
	LE002.5F	2.5x10 <sup>9</sup> million cells
	LE005F	5.0x10 <sup>9</sup> million cells
	LE010F	1.0x10 <sup>10</sup> million cells

## Product Description

Human peripheral blood Leukopaks are collected using Spectra Optia<sup>®</sup> Apheresis System from healthy donors. Approximately 10 billion total nucleated cells (TNCs) and between 200-300 mL of plasma can be collected from a full Leukopak.

Fresh products have a high viability without the detrimental effects of freezing, thawing, and exposure to cryoprotectants.

Cells were obtained using Institutional Review Board (IRB) approved consent forms and protocols.

## Sample Collection and Processing

All samples are collected on-site at our Stem Cell Collection Center. Apheresis donors are transfused with ACD-A during the collection process.

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

Fresh Leukopaks are shipped at ambient temperature unless otherwise specified from the customer.

## Storage

Fresh products should be used or processed immediately upon receipt. The warranty only covers items whose specifications are tested at the time they are received.

## Cell Counting Instructions

Important: This cell viability/counting step is required to ensure the quantity of cells provided. Be sure to count the cells before washing. Be aware that cell loss is expected and may be up to 30% during wash steps. Recovery rates vary depending on technique.

### Materials

- Cleaned hemocytometer
- Trypan Blue

### Protocol

1. When removing the cell suspension from the bag in which it was shipped, be sure to rinse the bag to collect all of the cells.

2. Gently mix the cell suspension and measure the volume.
3. Make a 1-in-2 dilution with 20  $\mu$ L each of well-mixed cell suspension and Trypan Blue.
4. Load one side of the hemocytometer, being careful not to over- or under-fill the chamber.
5. Count viable (clear, round, bright) and non-viable (blue, irregular shape, dull) cells in the four corner squares. Adjust your dilution if there are more than 100 cells/square.
6. Determine the number of total viable cells in the original sample. One square is equal to 100 nL.

Viability = live cells/all cells

Cell Concentration = Mean cells/square  $\times$  Dilution Factor  $\times$  104

Total Cell Count = Cell Concentration  $\times$  Starting Volume

Total Viable Cell Count = Total Cell Count  $\times$  Viability

## 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/](http://stemexpress.com/terms-and-conditions/).

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