

# Mobilized Leukopak

## Liquid or Cryopreserved

*For Research or For Further Processing Use*



BioSharingNetwork.Com

### Product Description

Hematopoietic progenitor cells (HPCs) are multipotent, self-renewing stem cells that give rise to all blood cell types including lymphoid, myeloid, and erythroid lineages. HPCs are collected by apheresis from GCSF mobilized donors. ACD anticoagulant is used at a ratio of 1:13. HPC apheresis product is collected to target number of cells, therefore the final volume and cell count will vary. End of collection targets of CD34+ cells can range from 300 to 500 million. Concurrent plasma can also be collected and added to the unit or provided separately.

### Product Source

Apheresis procedures are performed on donors that have had four to five days of GCSF stimulation at 10µg per Kg weight of the donor. Donors are collected using the Spectra Optia®.

### Product Processing

Post collection products can be cryopreserved or CD34+ enriched.

### Product Testing

Flowcytometry CD34+ enumeration is performed with the option to add 7AAD for measurement of cell viability. All units are sterility tested using a method compliant with USP <71>.

### Product Storage

If product is cryopreserved, store at -80°C or colder until use. Use immediately upon thaw. If product is liquid, use immediately or store at 4°C for up to 24 hours.

### Recommended Thawing Procedure for Cryopreserved HPC Leukopak Products (research use)

#### Materials 37°C

water bath  
ziplock bag, bigger than cryobag  
70% Isopropyl alcohol Kim  
wipes  
Syringe  
18G needle  
Wash Buffer (PBS+ 5mM EDTA+ 2% human serum)

#### Protocol

*Cells inside Leukopak products are sterile. To maintain sterility, perform all harvesting steps inside a biological safety cabinet, practice sterile technique, and use only sterile supplies and media.*

1. Remove cryopreserved product from storage and place into ziplock bag and seal. Place bag into water bath and gently rotate for 2-3 minutes until there are only a small amount of ice crystals left.
2. Take cryobag to the biological safety cabinet. Spray bag with 70% alcohol and wipe with a Kim wipe.

3. Draw up wash buffer into syringe. VERY slowly inject buffer into the bag with gentle bag rotation—this should take 5-10 minutes to complete
4. Remove a sample for counting and proceed to downstream research applications.

### **Warning**

This product is composed of human-derived materials. Always wear appropriate personal protective equipment when handling this product and treat it as potentially infectious, using Universal Precautions, regardless of the results of infectious disease testing.

### **Limitations and Publications**

This product is for research use or therapeutic use only, not for resale. Nothing produced directly from this product may be sold. When publishing scientific results obtained using this product, acknowledge supplier as Bio-Sharing.org.