

Leukopak, Non-Mobilized

For Research or For Further Processing Use

Product Description

Peripheral Blood Mononuclear Cell (PBMC) apheresis products, often called “Leukopaks” are collected from healthy, non-mobilized donors using automated apheresis. ACD anticoagulant is used at a ratio of 1:13. These products are enriched sources of monocytes and lymphocytes. They also contain platelets, plasma, and red cells. Product is collected to target number of cells, therefore the final volume and cell count will vary. End of collection targets of Total Nucleated Cells (TNCs) are 5 billion, 10 billion, or 15 billion. Custom doses can also be requested. Concurrent plasma can also be collected and added to the unit or provided separately.

Product Source

Apheresis procedures are performed on donors that have been qualified using a pre-collection CBC. Donors are collected using the Spectra Optia®.

Product Processing

Post collection products can be cryopreserved or divided into smaller concentrations and volumes. Products can be gamma irradiated and used as a feeder cell product.

Product Testing

TNC counts are performed to ensure that products meet minimum requirements. Additional flowcytometry enumeration of cell subsets can be performed. All units are sterility tested using a method complaint 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 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.