



## Cryopreserved Leukopaks

**Leukopaks, collected from peripheral blood from a single donor, are an enriched source of mononuclear cells (MNC, T cells, B cells, NK cells, and monocytes). Leukapheresis collections provide higher purity and quantity of mononuclear cells (MNCs) than buffy coat collection, which is desirable for research and clinical uses such as cell-based assays (proliferation, T cell activation, etc), cell therapy process development, biomarker discovery and more.**

MNCs are critical raw materials for many research and biomedical applications. Freshly procured cells are viable and functional within 24 hours post-collection but these attributes decline rapidly over time. Therefore, delays in getting your cells can negatively impact experimental workflows, costing time, money and resources. AllCells has addressed this need for an alternative to fresh cells that maintains high viability and functionality with its Cryopreserved Leukopak products, which enables researchers to have experimental flexibility without compromising on quality.

### Maintain Flexibility in your Workflow without Compromising Quality

With AllCells' new Cryopreserved Leukopaks, you have access to high-quality primary cells whenever you need them without worrying about potential delivery delays that can be associated with fresh cells. When stored properly, cryopreserved Leukopaks allow for prolonged storage affording you flexibility in your workflow without compromising on quality.

A key advantage with AllCells' Cryopreserved Leukopaks is acquisition and manufacturing facilities are adjacent to each other. This enables the leukapheresis material to be immediately cryopreserved in CryoStor® CS10 (GMP-grade cryopreservation medium) or any other Cryoprotectants that customers require to maintain cell viability between collection and processing events.

MNC-rich peripheral blood is collected using continuous flow Spectra Optia® Apheresis System into ACD-A anticoagulant following a standardized protocol at our on-site, IRB approved bi-coastal collection facilities located in Alameda, California and Quincy, Massachusetts from an extensive pool of healthy, consenting and recallable donors. As with our other products, Cryopreserved Leukopaks adhere to strict quality standards to ensure unparalleled purity, viability, and quality.



LEUKOPAK

## Key Advantages



### HIGH QUALITY CELLS

Superior TNC and cell viability due to on-site processing facilities, which mitigate loss of fidelity prior to cryopreservation.



### STATE-OF-THE-ART CRYOPRESERVATION

Cells are cryopreserved using GE Healthcare's GMP-compliant VIA Freeze Quad controlled-rate freezer, which enables consistently high post-thaw recovery and viability.



### DEPENDABLE COLD CHAIN LOGISTICS

AllCells utilizes CryoPort LN<sub>2</sub> Dry Shippers for dependable end-to-end shipping logistics.



### FLEXIBILITY

Cryopreserved cells give you the flexibility to do experiments on your schedule without waiting on delivery of fresh cells.

## State-of-the-Art Cryopreservation and Reliable Cold Chain Logistics

AllCells cryopreservation protocol has been optimized using GE Healthcare's GMP-compliant VIA Free Quad controlled rate freezers, which utilizes state-of-the-art conduction cooling. The controlled cooling of the unit is gentle on cells, preserving cell function and viability.

To ensure end-to-end cold chain logistics are worry-free, AllCells ships Cryopreserved Leukopaks using CryoPort's LN<sub>2</sub> dry shippers. These shippers can maintain temperatures of ≤150°C for up to 10 days eliminating temperature excursions and risk of product degradation.

AllCells has removed the complex logistical and technical challenges, through its immediate cell processing, state-of-the-art cryopreservation protocols to safeguard product quality, to providing dependable cold chain logistics to minimize risks during shipping. You can get Cryopreserved Leukopaks with high viability and functionality to achieve flexibility in your workflow without sacrificing quality.

## Cryopreserved Leukopak Product Portfolio

Whether you require Cryopreserved Leukopaks with a defined starting cell number (2.5-3.0B TNC) prior to cryopreservation, full collection from a single donor or have unique requirements for your research, AllCells can meet your needs. Our unique adjacent, on-site collection and processing facilities can accommodate customer requests such as (but not limited to):

### – A variety of aseptic division formats:

- By cell volume or cell count
- Have part of the collection fresh and part of it cryopreserved
- Delivery to different geographical destinations

### – Alternative cryopreservation formulations, packaging formats and more

All Cryopreserved Leukopaks are quality controlled for cell count and viability (pre-cryopreservation) using a validated AO/PI protocol. Each product meets the specifications listed below. Additional characterization such as immunophenotyping based on cell surface marker expression (CD45+, CD3+, CD4+, CD8+, CD14+, CD56+, CD19+) and 5-part differential CBC counts will be provided.

Product	LP, CR, Solo 2.0 – 3.0B	LP, CR, Full Pak	LP, CR, Custom
Description	Leukapheresis material cryopreserved in CS10	Leukapheresis material cryopreserved in CS 10	Leukapheresis material cryopreserved per custom specification
Pre-cryopreservation TNC	2.5 - 3B	9.8 - 17.5B*	Custom
Fill Volume	NMT 70mL per CS250 cryo bag	NMT 250mL per CS750 cryo bag	Custom
Sampling Vials	1	1	Custom
Certificate of Analysis	CBC, IP, Cell count, viability	CBC, IP, Cell count, variability	Custom

*\*Donor variability applies*

Contact us today at [info@allcells.com](mailto:info@allcells.com) or **510.726.2700** to learn more and/or get a quote.