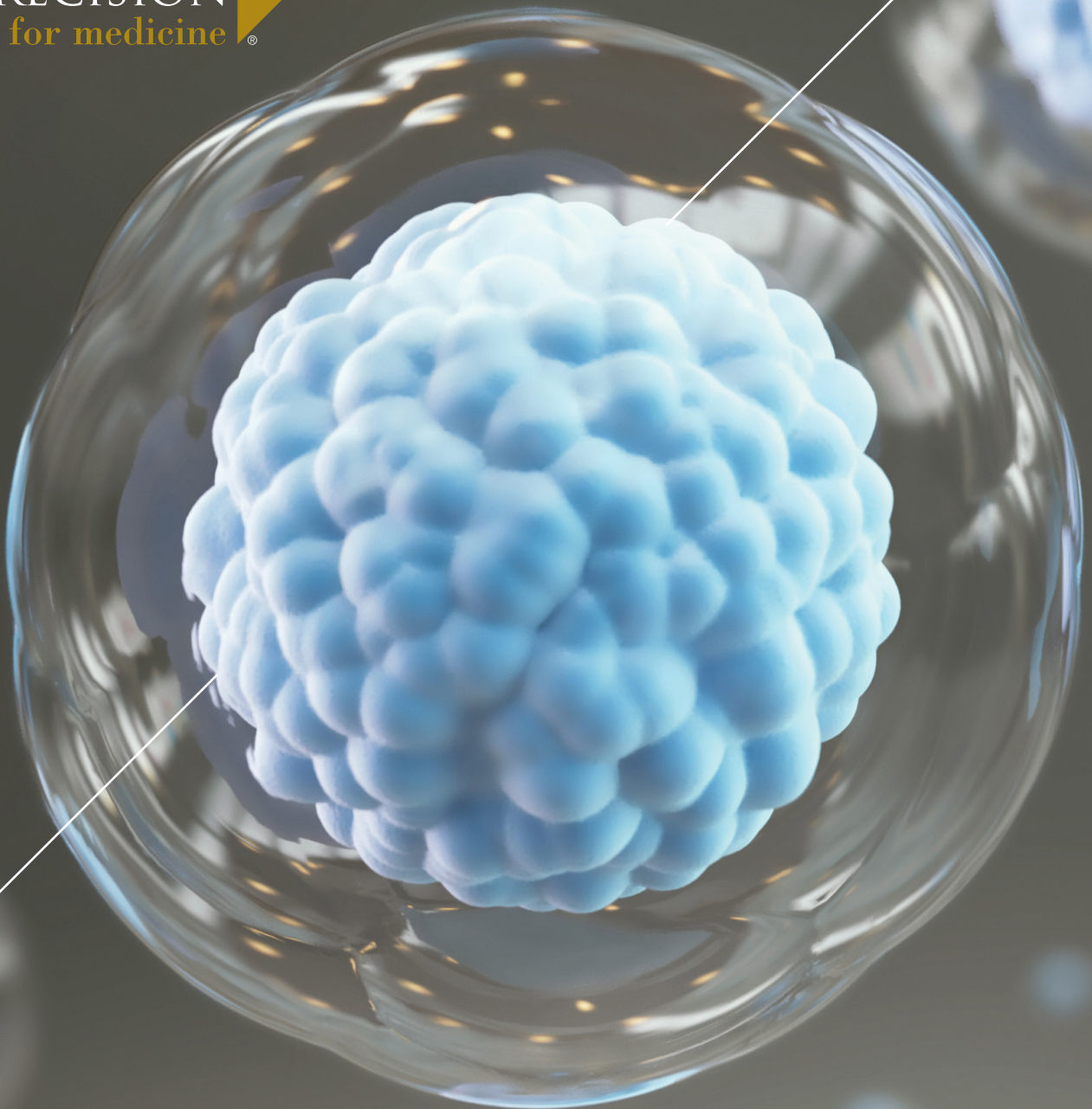


Viabile Cell Products

PRECISION
for medicine®



Viable Cell Products

Precision for Medicine offers a variety of viable cell products collected and designed to meet your research needs and can provide custom collections and various processing options. In addition, we have a full suite of specialty labs for biomarker analysis of your samples. All our products are collected and processed at our in-house apheresis center, ensuring end-to-end chain of custody for your samples and allowing same-day collection and processing.



Fresh Leukopaks

Healthy and disease-state research-grade leukopaks, HLA typed, same-day shipping.



Cryopreserved Leukopaks

Processed with serum-free media (CS10), ensuring the highest yield, viability, and quality of cells post-thaw, providing you a viable option for long-term storage.



Mobilized Leukopaks

Healthy donors treated with FDA-approved mobilizing G-CSF drugs (Neupogen®), obtaining the highest yields of CD34+ stem cells from a single donor.



Peripheral Blood Mononuclear Cells (PBMCs)

Healthy or disease-state peripheral blood mononuclear cells with >95% pre-freeze viability—HLA typed and viral negative.



Purified Cell Subsets

Custom cells available from healthy and disease-state subjects, isolated from whole blood, cord blood, bone marrow, and leukopaks.

Leukopaks

Providing up to 100× more cells from a single donor than whole blood collections, leukopaks bring assay-to-assay consistency to your studies. Precision for Medicine offers a variety of leukopaks, each one designed to meet specific research needs. Find out which one is right for your research:

Product	Description
Fresh Leukopak	<ul style="list-style-type: none">• Fresh leukopaks from HLA-typed donors• Same-day delivery to Boston area• Isolations into PBMCs, NK cells, T cells, B cells, and more
Cryopreserved Leukopak	<ul style="list-style-type: none">• Cryopreservation methods using CS10 (serum-free media)• Long-term storage• International shipping
Mobilized Leukopak	<ul style="list-style-type: none">• Fresh or cryopreserved• Contains up to 10× more CD34+ stem cells from a single donor for isolation than normal leukopaks, reducing donor variability

All leukopak products have ~97% pre-freeze viability

- Full-size leukopak (10-12B cells)
- 1/2-size leukopaks (4-6B cells)
- 1/4-size leukopaks (2B cells, cryopreserved only)

PBMCs

Precision for Medicine's PBMC product inventory encompasses a large repository of healthy and disease-state cells from donors, each characterized with testing and demographic data.

- >95% pre-freeze viability
- IFN-γ responses against PHA, CEF, and CMV stimulants

Purified Cell Subsets

Variability in quality, availability, and purity can derail a research study. At Precision for Medicine, cell subsets are purified within our global lab network within hours of collection.

- T cells (CD3, CD4, CD8, Pan T cells)
- NK cells
- CD34+ stem cells
- Plasma B cells
- Monocytes
- Dendritic cells
- Neutrophils
- Tregs (regulatory T cells)

How Do We Source Our Products?

Ensuring your research is accompanied by the highest-quality products, Precision for Medicine has opened its in-house, CLIA-certified apheresis center located in Mansfield, MA. Our apheresis center can collect, process, and ship products under a single chain of custody—bringing the benefit of same-day collection and processing, as well as same-day delivery, to the Greater Boston area.



Our apheresis center is fully equipped with:

- Spectra Optia® Apheresis System
- Established network of healthy donors, ages 18-55
- Experienced nursing staff
- In-house processing labs and shipping facilities
- End-to-end sample chain of custody

Quality Guarantee

All donors and facilities meet stringent quality guidelines to guarantee quality products.

- Collected in a CLIA-certified facility
- Consented and IRB approved for research
- Recallable, HLA-typed donors
 - Demographic information
 - Medical history, disease characterization, outcome data
- CBC report available, all viral negative and vaccination status captured
- Custom characterization

Our products are consistent but flexible, so we always meet your needs without sacrificing quality.

- Same-day collection and processing
- Custom collections, processing, and cell isolations available

Cell Processing and Isolations

All viable cell products undergo standard processing protocols after collection at our in-house processing lab. Additionally, we can perform custom isolations or processing procedures to meet your specific needs and offer the following services for additional processing or analysis.

Flow Cytometry

Immunophenotyping panel on leukopaks, PBMC, BMMNC, DTC (B cells, T cells)

- Custom panels
- Purity assessment on isolated cell subsets

ELISpot/Fluorospot

- IFN- γ immune responses
- Custom assays

Cell Culture

- PBMC
- DTC
- BMMNC
- Enriched cell populations
- T-cell expansion

CBC Analysis

- 5-part differential

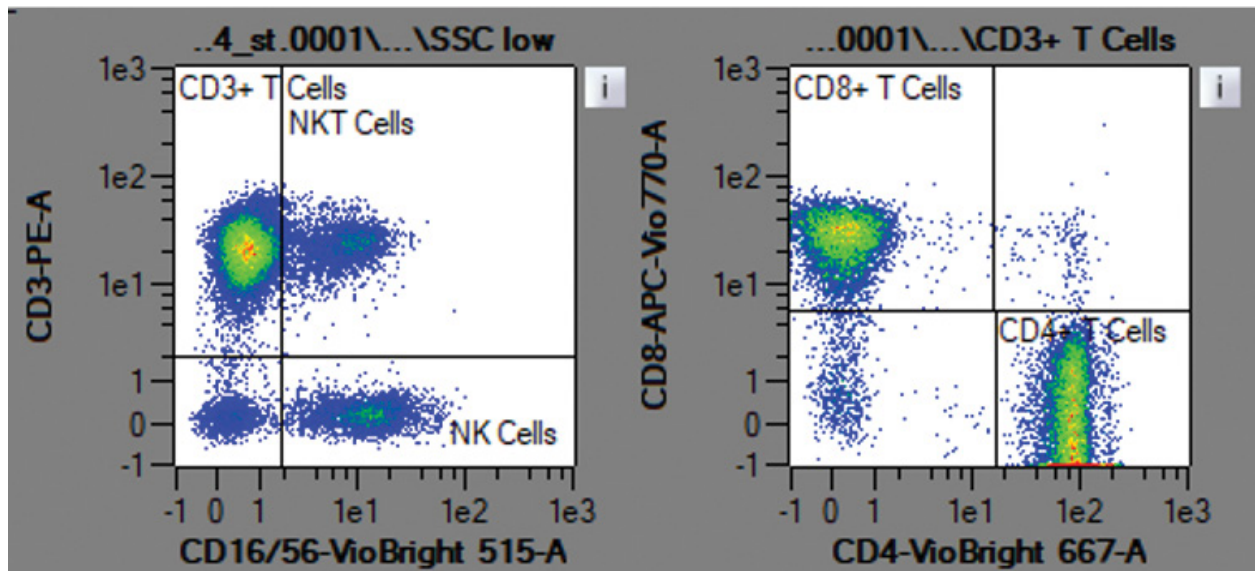
ELISA

- AAV serotype assays
- Custom assays

Example Characterization Data, Leukopak 8-Color Immunophenotyping

Measures the population and frequency of the following:

- Viable cells
- Leukocytes
- Monocytes
- B cells
- Eosinophils/neutrophils
- NK cells
- CD3+ T cells (NKT cells, CD8+ T cells, CD4+ T cells)



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7

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• Metabolic	• Respiratory	• Immunology & Rheumatology
• Gastroenterology	• Ophthalmology	• Infectious
• Reproductive	• Cardiovascular	• Dermatology

*Other diseases available upon request.



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Rev. 02

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