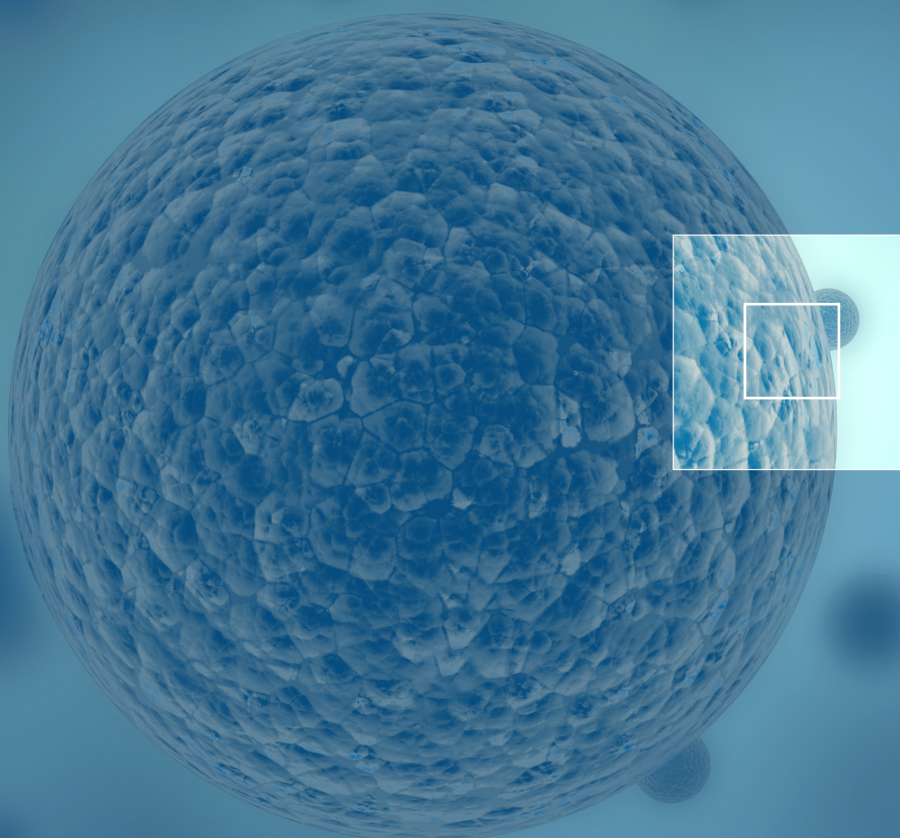


Human Primary Blood Cells





**Extensively Characterized PBMCs
Available Immediately Off-The-Shelf**

**>90% AVERAGE LOT VIABILITY
AND PURITY POST-THAW**

PERIPHERAL BLOOD MONONUCLEAR CELLS (PBMCs) AND HIGHLY PURIFIED SUBSETS

Normal healthy human PBMCs

- Cryopreserved human PBMCs
- Purified CD4 T-cells, CD8 T-cells, CD14 monocytes, and CD19 B-cells (each $\geq 80\%$ pure)
- Cryopreserved using a controlled-rate freezing program
- Real-time stability testing program demonstrates long shelf life
- Large lot sizes available (up to 12 billion cells from a single donor)
- Available in a variety of sizes to fit the needs of discovery research and high throughput screening
- Custom isolations and aliquot sizes upon request

Our AccuCell® PBMC product inventory encompasses more than 50 unique healthy donors, each characterized with testing and demographic data to fit your precise needs.

- Basic demographics include: age, gender, ethnicity
- HLA Class-I and Class-II information available
- IFN- γ responses against PHA, CEF, and CMV stimulants
- ADCC testing results available on select lots
- FACS purity analysis for purified subsets
- Tested negative for HIV, HBV, and HCV

AccuCell® products are for research use only

To find lot-specific information and order online, go to www.buypbmcs.com.

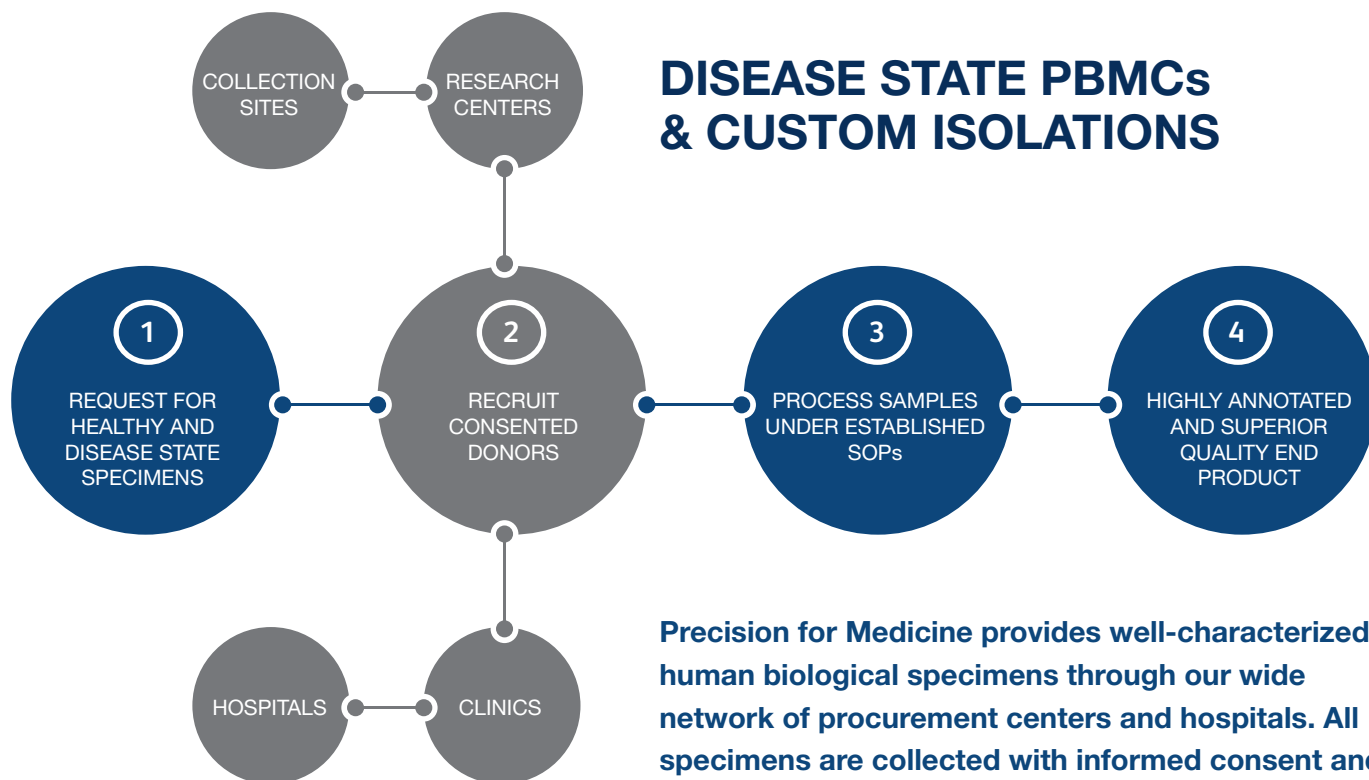
Thousands of PBMC and subset isolations performed following stringent SOPs. All donations have IRB approved Informed Consent.

Example of donor lot specific Certificate of Analysis.

| DATA | EXAMPLE |
|--------------|---|
| AGE | 21 |
| GENDER | Male |
| ETHNICITY | Hispanic |
| HLA CLASS I | A26 |
| | A30 |
| | B14 |
| | B56 |
| | C01 |
| | C08 |
| HLA CLASS II | DRB1 07:01 |
| | DRB1 11:04 |
| | DRB3 02:02 |
| | DRB4 01:01 |
| | DQB1 02:02 |
| CEF (SFC) | 13 – Low Response |
| CMV (SFC) | 701 – High Response |
| PHA (SFC) | TNTC: Too Numerous To Count. Considered a High Response |

SFC = Spot Forming Cells
No Response = 0-10
Low Response = 11-50
Medium Response = 51-100
High Response = >100

DISEASE STATE PBMCs & CUSTOM ISOLATIONS



Precision for Medicine provides well-characterized human biological specimens through our wide network of procurement centers and hospitals. All specimens are collected with informed consent and under IRB approved protocols.

SPECIALTY AREAS OF COLLECTION INCLUDE:

Autoimmune Disorders

- SLE
- IBD
- Psoriasis
- Rheumatoid Arthritis
- Crohn's Disease

Oncology

- CLL
- Breast Cancer
- Kidney Cancer
- Ovarian Cancer
- Bladder Cancer

Other Conditions

- COPD
- Asthma
- Osteoarthritis
- Allergies

EXPERIENCE WITH DIVERSE SAMPLE TYPES

- Whole Blood
- Mobilized Leukopaks
- Cord Blood
- Bone Marrow
- Serum and Plasma
- Matched Donor Sets



Specialty biospecimens are sourced to fit client's requests for specific clinical and demographic data. Requests for matched sample sets and matched case-control donors can often be fulfilled.



Precision offers a wide range of sample preanalytical services and specialty lab services to ensure your specimens will be fit for purpose.

Spend More Time on Research and Less Time Searching for Unique Donors

Tell Us Your Desired Population and We Will Custom Isolate Cells for You.
It's That Easy.

AccuCell® Human Peripheral Blood Mononuclear Cells

| Product Description | Concentration (post-thaw) | Catalog # |
|---|---------------------------|------------|
| PBMCS: COMPREHENSIVELY CHARACTERIZED | 10 MILLION | 83000C-1.0 |
| | 50 MILLION | 83000C-5.0 |
| PBMCS: PURIFIED BY DENSITY GRADIENT AND COMPREHENSIVELY CHARACTERIZED | 10 MILLION | 93000-10M |
| | 50 MILLION | 93000-50M |
| CRYO-M: CD14 ⁺ MONOCYTES | 5 MILLION | 84100-1.0 |
| CRYO-T4: CD4 ⁺ T-CELLS | 5 MILLION | 84200-1.0 |
| CRYO-T8: CD8 ⁺ T-CELLS | 5 MILLION | 84300-1.0 |
| CRYO-B: CD19 ⁺ B-CELLS | 5 MILLION | 84400-1.0 |

Custom Isolations Available

Precision provides isolation of cells from a wide range of specimen material types from healthy people and those with diseases. Below are a few examples:

| | |
|--------------------------|-----------------|
| CD34 ⁺ CELLS | MEMORY B-CELLS |
| NK CELLS | NAÏVE B-CELLS |
| REGULATORY T-CELLS | NAÏVE T-CELLS |
| CD3 ⁺ T-CELLS | DENDRITIC CELLS |
| MEMORY T-CELLS | STEM CELLS |

For more information on our human cellular products, please contact us at buypbmcs@precisionformedicine.com, call 855-222-5010, or visit buypbmcs.com.