

# Human Primary Hematopoietic Cells for Advancement of Your Research

## 2018 Product Catalog



**Your Research • Our Cells • Your Way**



**HemaCare™**  
Your research. Our cells. Your way.

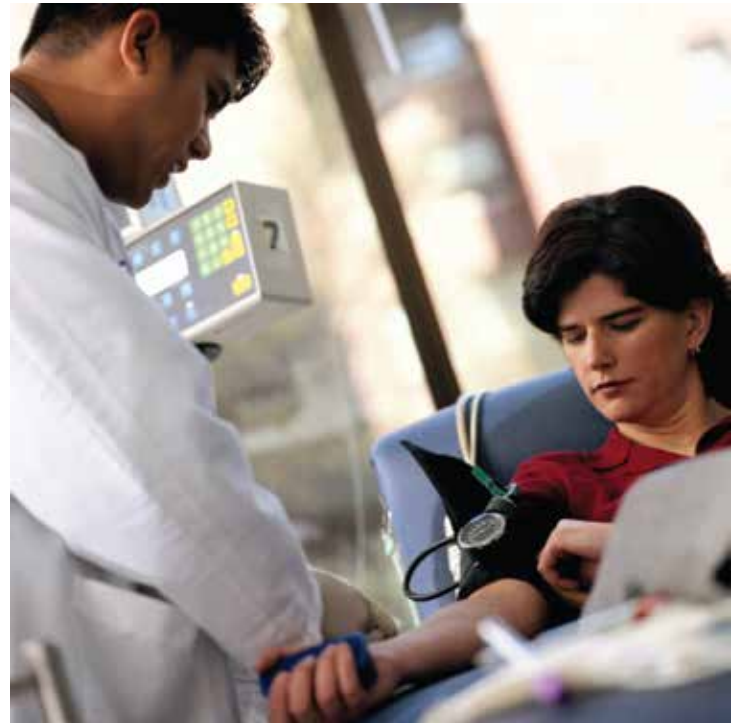
**HemaCare** is a global provider of human hematopoietic primary cells and services to cell therapy and life science researchers. We have customized our focus on consistent, high quality product derived from profiled donors drawn in our own FDA-registered, AABB accredited collection facility. We perform collections for general research use and have the ability to meet current cGMP and cGTP requirements. HemaCare also supports cell therapy development, clinical trials, and commercialization with customized apheresis collections via its *Cell Therapy Solutions* portfolio.

## Experience the HemaCare Difference

- Highly characterized donor pool
  - Specific characteristics
  - Recallable donors
- FDA registered collection centers
- Rigorous operational controls and quality systems for cell processing and preservation

## Why Partner With HemaCare

- IRB-approved collection protocols and informed donor consents
- Large registry of repeat-donor subjects
- Availability of Donor Clinical Data
- Optimized, standardized, and validated collection procedures
- Time from collection to cell processing is immediate
- cGMP collection for cell therapy process development and allogeneic starting material
- Consistently high yield and viable cells
- Validated, automated cell counts and five-part WBC differentials
- Certificate of Analysis includes donor data, cell counts and purity for all products
- Direct access to our Scientists via our scientific support hotline
- Easy ordering and delivery



*“Not only did HemaCare have an IRB already set-up to allow us access to multiple donors, but they were also able to accommodate our unique requests.”*

-DxTerity Diagnostics

*“The last collection couldn't be any better! I want to add that the staff at HemaCare have been invaluable and a joy to work with.”*

-Argos Therapeutics, Inc.

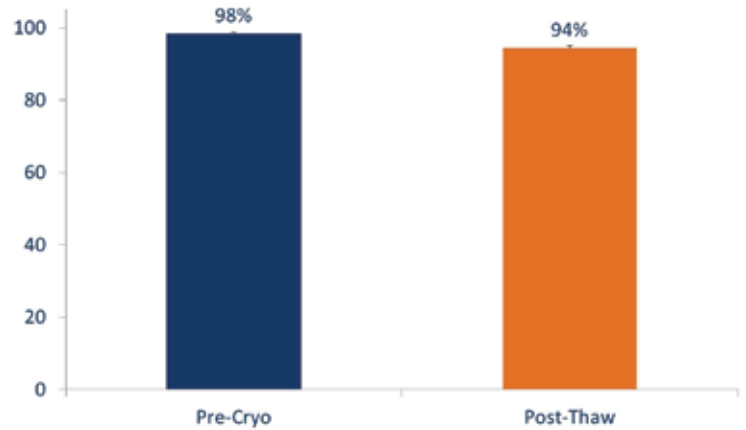
Visit Our  
Website



# Primary Human Blood Cells And Blood Components

## Peripheral Blood

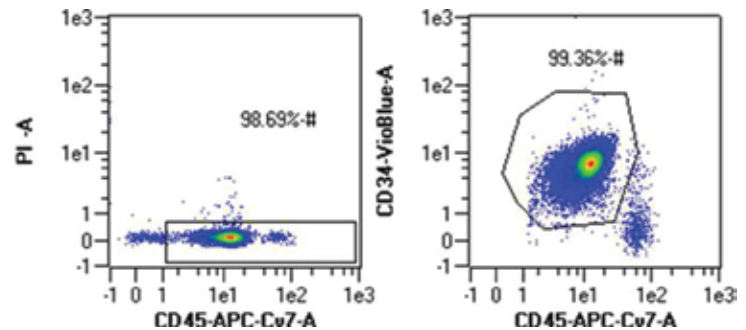
- Leukopak, Platelets, Whole Blood, Plasma, Serum
- Mononuclear Cells, Dendritic Cells, Macrophages, Neutrophils
- CD3<sup>+</sup> Pan T Cells, CD4<sup>+</sup> Helper T Cells, CD8<sup>+</sup> Cytotoxic T Cells, CD14<sup>+</sup> Monocytes, CD19<sup>+</sup> B Cells, CD56<sup>+</sup> NK Cells, Regulatory T Cells



PBMC viability is measured pre and post cryopreservation.

## Mobilized Peripheral Blood

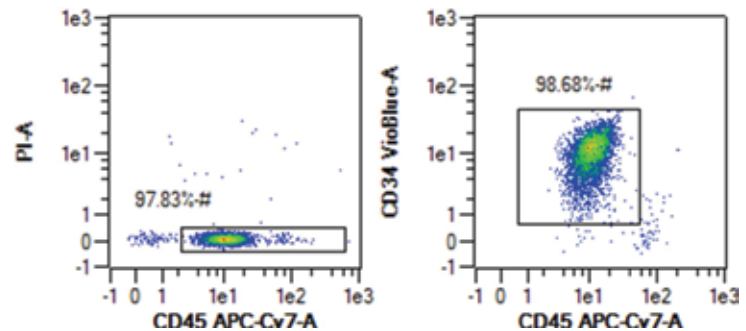
- Leukopak\*
  - Mononuclear Cells
  - CD34<sup>+</sup> Stem/Progenitor Cells, CD133<sup>+</sup> Stem/Progenitor Cells
- \*MOZOBIL<sup>®</sup>, G-CSF, or combination



Viability and purity of freshly isolated CD34<sup>+</sup> stem cells collected from mobilized peripheral blood prior to cryopreservation.

## Bone Marrow

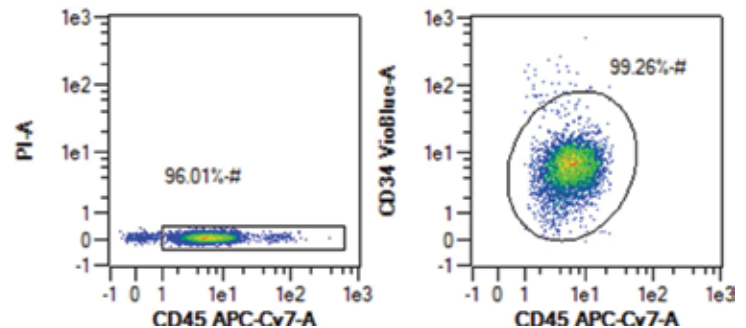
- Unprocessed Bone Marrow
  - Mononuclear Cells
  - Mesenchymal Stem Cells (MSC), CD34<sup>+</sup> Stem/Progenitor Cells, CD133<sup>+</sup> Stem/Progenitor Cells
- \*Matched bone marrow and whole blood available upon request



Viability and purity of freshly isolated CD34<sup>+</sup> stem cells collected from bone marrow prior to cryopreservation.

## Cord Blood

- Unprocessed Cord Blood, Plasma
- Mononuclear Cells, Neutrophils, Dendritic Cells
- CD3<sup>+</sup> Pan T Cells, CD4<sup>+</sup> Helper T Cells, CD8<sup>+</sup> Cytotoxic T Cells, CD14<sup>+</sup> Monocytes, CD19<sup>+</sup> B Cells, CD56<sup>+</sup> NK Cells
- CD34<sup>+</sup> Stem/Progenitor Cells, CD133<sup>+</sup> Stem/Progenitor Cells



Viability and purity of freshly isolated CD34<sup>+</sup> stem cells collected from cord blood prior to cryopreservation.



# Ordering And Delivery Information

There are several ways to order your products with HemaCare!

## Ordering

**Online:** [www.hemacare.com](http://www.hemacare.com)  
**Email:** [bioresearchproducts@hemacare.com](mailto:bioresearchproducts@hemacare.com)  
**Phone:** (877) 397-3087  
**Fax:** (818) 647-0232  
**Mail:** HemaCare Corporation  
Attn: BioResearch Products Sales  
15350 Sherman Way, Suite 423  
Van Nuys, CA 91406

## Scientific Support

For advice on which products suit your research projects, support on a challenging experiment, or information regarding procedures and processes, contact us.

### Ask Our Experts

Hours: Monday - Friday, 5 AM to 5 PM PST  
Email: [bioresearchproducts@hemacare.com](mailto:bioresearchproducts@hemacare.com)  
Phone: (877) 944-4362  
Fax: (818) 647-0232

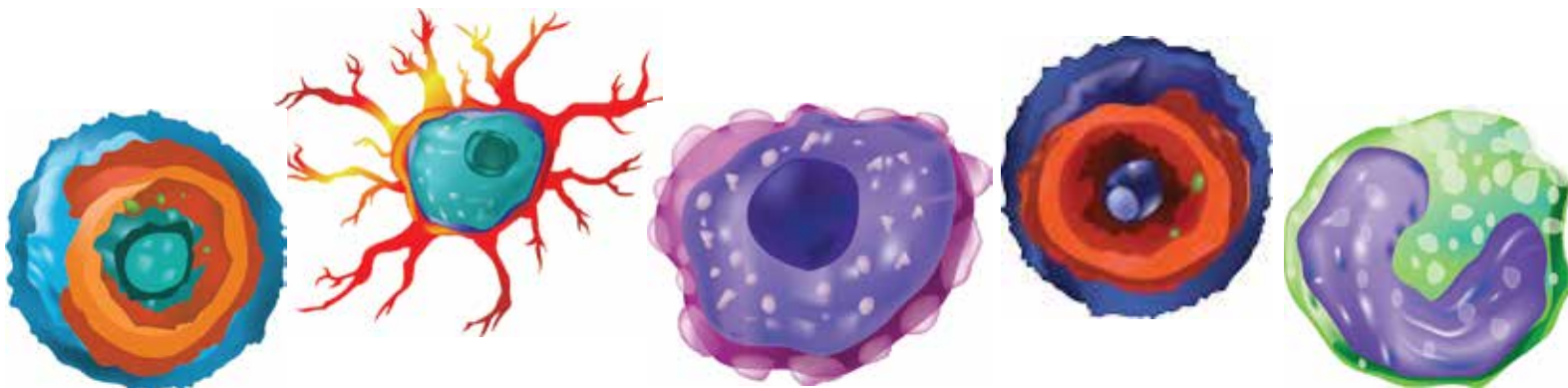
## Lead Times

**Fresh products.** Standard collections are scheduled Monday through Thursday for next day delivery. Please order each collection at least two weeks prior to desired date of receipt (three weeks for cord blood and bone marrow products, and six weeks for mobilized products).

**Cryopreserved products.** HemaCare will ship the product within one to two days of receiving all required forms. Product delivery is subject to stock availability. *(Optional: LN2 shipping container which maintains temperature up to 10 days)*

**Custom products.** HemaCare requires lead time to recruit donors per customer specifications. Lead time period will be discussed upon order request.

Your order, pricing, and delivery date will be confirmed upon receipt of purchase order or credit card information.



Visit [www.hemacare.com](http://www.hemacare.com) for additional information.  
For Research Use Only.



**HemaCare**<sup>™</sup>  
Your research. Our cells. Your way.

## From Bench to Bedside - We Are Committed to Your Success!

HemaCare's expertise in apheresis for over 39 years can be your advantage in the development and qualification of novel cell and gene therapies, assays, and medical devices. We have optimized collection by:

- Controlling and qualifying our apheresis procedures and collection sites
- Ability to apply cGMP and cGTP to achieve a higher degree of reproducibility



## HemaCare Supports

- Non-clinical studies
- Clinical trials
- Commercial product manufacturing
  - Normal healthy leukapheresis for process development
  - Starting material for allogeneic cell therapy

## Why is HemaCare the Best Choice?

- Provide trackable donor and collection results
- Recall donors for repeat collections
- Customize collections per your protocol (i.e. isolation, volume/cell number, packaging and shipping)

## Peripheral Blood Leukopak

A leukopak is an enriched fresh leukapheresis product collected from normal peripheral blood by leukapheresis using the COBE® Spectra or Spectra Optia® Apheresis System in ACD-A anticoagulant.

A leukopak is composed of a variety of blood cells including monocytes, lymphocytes, platelets, plasma, and red cells.

Leukopaks are collected through a quality approved program in HemaCare's FDA-registered collection center from healthy human volunteer donors.

## Research Use Only

PB001F-1	Leukopak - Full Collection; Fresh
PB001F-2	Leukopak - Half Collection; Fresh
PB001F-3	Leukopak - Quarter Collection; Fresh
PB001CLP-1- KIT	Leukopak - Full Collection, Cryo
PB001CLP-2- KIT	Leukopak - Half Collection; Cryo
PB001CLP-3- KIT	Leukopak - 2-2.5 x 10 <sup>9</sup> MNCs; Cryo

## GMP Grade

PB001F-1-GMP	Leukopak - Full Collection; Fresh
PB001F-1-GMP-PD	Leukopak - Process Development
PB001F-1-GMP-ALLO	Leukopak - Allogeneic
PB001F-1-GMP-AUTO	Leukopak - Autologous
PB001F-1-GMP-CT	Leukopak - Clinical Trial

## Donors Are the Critical Source of Primary Cells

HemaCare recruits and develops a healthy donor pool consisting of diverse demographics and parameters. All donors sign an IRB-approved informed consent.

## Characterized Donor Database

- Highly profiled, regular collection schedule
- Qualification and testing performed with each donation
- Recruitment of donors with specific characteristics as requested by investigator
  - Diverse demographics: age, gender, height, weight, ethnicity, lifestyle characteristics
  - Medical history: vaccinations, diet, family history
  - HLA results, CMV status, ABO blood type
  - Ability to provide both **repeat** and **unique** donors
  - Other specific parameters



# Peripheral Blood

**Peripheral Blood** cells are collected from normal human volunteers by direct collection or by using the COBE® Spectra or Spectra Optia® Apheresis System where cell-rich leukapheresis product is extracted using continuous flow centrifugal technology directly into the collection bag.

## Consent, Collection, and Screening

- Donors review and sign an institutional review board (IRB) approved procedure-specific consent form prior to the collection.
- Collection in HemaCare's FDA-registered, AABB-accredited collection center.
- Products are negative for Hepatitis B, Hepatitis C, HIV 1/2, HTLV-I/II, HIV-1/HCV/HBV Nucleic Acid, WNV Nucleic Acid, Trypanasoma cruzi, and Syphilis.

## Ordering and Shipping

	Fresh	Cryopreserved
<b>Lead Time</b>	1-2 Weeks	1-2 Business Days
<b>Shipping Conditions</b>	Leukopak: Room Temp. Whole Blood: Room Temp. Plasma/Serum: Room Temp. Platelets: Room Temp. Isolated Cells: Wet Ice	Dry Ice

HemaCare can ship per your requested specifications.

### Place an Order

- ☎ 877.397.3087
- ✉ bioresearchproducts@hemacare.com
- 📠 818.647.0232
- 🌐 www.hemacare.com

### Technical Support

- ☎ 877.944.4362

### Connect With Us

- 🌐 HemaCare Corporation
- 🐦 @HC\_BioResearch
- 📘 HemaCare BioResearch Products

Catalog #	Product Description	Average Size	Format
PB001CLP-1-KIT	Leukopak - Full Collection	Multiple bags	Cryopreserved
PB001CLP-2-KIT	Leukopak - Half Collection	Multiple bags	Cryopreserved
PB001CLP-3-KIT	Leukopak - Partial, Guaranteed Pre-Cryo Cell Count	2-2.5 x 10 <sup>9</sup> MNCs	Cryopreserved
PB001F-1	Leukopak - Full Collection	1 Bag	Fresh
PB001F-2	Leukopak - Half Collection	½ Bag	Fresh
PB001F-3	Leukopak - Quarter Collection	¼ Bag	Fresh
PB001	Leukopak	Custom	Custom
PB000F-1	Whole Blood	450 mL	Fresh
PB000F-2	Whole Blood	Up to 10 mLs	Fresh
PB000F-3	Whole Blood	100 mLs	Fresh
PB000	Whole Blood	Custom	Custom
PB006C-1	Plasma	2 mL	Cryopreserved
PB006C-2	Plasma	5 mL	Cryopreserved
<i>Pricing only for cryo vials CURRENTLY in inventory. Matched pairs with isolated cells are in inventory - inquire for availability.</i>			
PB006F-1	Plasma	Up to 10 mLs	Fresh
PB006	Plasma	Custom	Custom
PB007C-1	Serum (from inventory only)	2 mL	Cryopreserved
PB007C-2	Serum (from inventory only)	5 mL	Cryopreserved
PB007F-1	Serum - derived from 8.5 mL SST Tube	2-3 mLs	Fresh
PB007	Serum	Custom	Custom
PB002F-1	Platelets; Single Donor	300 x 10 <sup>9</sup> platelets	Fresh

more on reverse side



# Peripheral Blood

Catalog #	Product Description	Average Size	Format
PB009C-1	Mononuclear Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB009C-2	Mononuclear Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
PB009C-50	Mononuclear Cells	50 x 10 <sup>6</sup> cells	Cryopreserved
PB009C-3	Mononuclear Cells	100 x 10 <sup>6</sup> cells	Cryopreserved
PB009F-4	Mononuclear Cells	500 x 10 <sup>6</sup> cells	Fresh
PB009	Mononuclear Cells	Custom	Custom
PB03C-1	CD3 <sup>+</sup> Pan T Cells	5 x 10 <sup>6</sup> cells	Cryopreserved
PB03C-2	CD3 <sup>+</sup> Pan T Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB03C-3	CD3 <sup>+</sup> Pan T Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
PB03C-4	CD3 <sup>+</sup> Pan T Cells	50 x 10 <sup>6</sup> cells	Cryopreserved
PB03NC-1	CD3 <sup>+</sup> Pan T Cells, Negative Selection	5 x 10 <sup>6</sup> cells	Cryopreserved
PB03NC-2	CD3 <sup>+</sup> Pan T Cells, Negative Selection	10 x 10 <sup>6</sup> cells	Cryopreserved
PB03NC-3	CD3 <sup>+</sup> Pan T Cells, Negative Selection	25 x 10 <sup>6</sup> cells	Cryopreserved
PB03NC-4	CD3 <sup>+</sup> Pan T Cells, Negative Selection	50 x 10 <sup>6</sup> cells	Cryopreserved
PB03	CD3 <sup>+</sup> Pan T Cells	Custom	Custom
PB0345RAC-1	Naïve CD3 T Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB0345RA	Naïve CD3 T Cells	Custom	Custom
PB03-TCRG/D	CD3+ Gamma/Delta T Cells	Custom	Custom
PB04C-1	CD4 <sup>+</sup> Helper T Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB04C-2	CD4 <sup>+</sup> Helper T Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
PB04F-1	CD4 <sup>+</sup> Helper T Cells	10 x 10 <sup>6</sup> cells	Fresh
PB04NC-1	CD4 <sup>+</sup> Helper T Cells, Negative Selection	10 x 10 <sup>6</sup> cells	Cryopreserved
PB04NC-2	CD4 <sup>+</sup> Helper T Cells, Negative Selection	25 x 10 <sup>6</sup> cells	Cryopreserved
PB04	CD4 <sup>+</sup> Helper T Cells	Custom	Custom
PB0445RAC-1	Naïve CD4 T Cells	5 x 10 <sup>6</sup> cells	Cryopreserved
PB0445RA	Naïve CD4 T Cells	Custom	Custom
PB0445RONC-1	Memory CD4 T Cells, Negative Selection	10 x 10 <sup>6</sup> cells	Cryopreserved
PB0445RON	Memory CD4 T Cells, Negative Selection	Custom	Custom
PB08C-1	CD8 <sup>+</sup> Cytotoxic T Cells	5 x 10 <sup>6</sup> cells	Cryopreserved
PB08C-2	CD8 <sup>+</sup> Cytotoxic T Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB08NC-1	CD8 <sup>+</sup> Cytotoxic T Cells, Negative Selection	5 x 10 <sup>6</sup> cells	Cryopreserved
PB08NC-2	CD8 <sup>+</sup> Cytotoxic T Cells, Negative Selection	10 x 10 <sup>6</sup> cells	Cryopreserved
PB08NC-3	CD8 <sup>+</sup> Cytotoxic T Cells, Negative Selection	25 x 10 <sup>6</sup> cells	Cryopreserved
PB08	CD8 <sup>+</sup> Cytotoxic T Cells	Custom	Custom
PB0845RONC-1	Memory CD8 T Cells, Negative Selection	5 x 10 <sup>6</sup> cells	Cryopreserved
PB0845RON	Memory CD8 T Cells, Negative Selection	Custom	Custom
PB14C-1	CD14 <sup>+</sup> Monocytes	10 x 10 <sup>6</sup> cells	Cryopreserved
PB14C-2	CD14 <sup>+</sup> Monocytes	25 x 10 <sup>6</sup> cells	Cryopreserved
PB14C-3	CD14 <sup>+</sup> Monocytes	50 x 10 <sup>6</sup> cells	Cryopreserved
PB14F-3	CD14 <sup>+</sup> Monocytes	50 x 10 <sup>6</sup> cells	Fresh
PB14NC-1	CD14 <sup>+</sup> Monocytes, Negative Selection	10 x 10 <sup>6</sup> cells	Cryopreserved
PB14NC-2	CD14 <sup>+</sup> Monocytes, Negative Selection	25 x 10 <sup>6</sup> cells	Cryopreserved
PB14NC-3	CD14 <sup>+</sup> Monocytes, Negative Selection	50 x 10 <sup>6</sup> cells	Cryopreserved
PB14	CD14 <sup>+</sup> Monocytes	Custom	Custom
PB19C-1	CD19 <sup>+</sup> B Cells	5 x 10 <sup>6</sup> cells	Cryopreserved
PB19C-2	CD19 <sup>+</sup> B Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB19C-3	CD19 <sup>+</sup> B Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
PB19NC-1	CD19 <sup>+</sup> B Cells, Negative Selection	10 x 10 <sup>6</sup> cells	Cryopreserved
PB19	CD19 <sup>+</sup> B Cells	Custom	Custom
PB425/127NC-1	CD4 <sup>+</sup> /CD25 <sup>+</sup> /CD127 <sup>-</sup> Regulatory T Cells	1 x 10 <sup>6</sup> cells	Cryopreserved
PB425/127NC-2	CD4 <sup>+</sup> /CD25 <sup>+</sup> /CD127 <sup>-</sup> Regulatory T Cells	2 x 10 <sup>6</sup> cells	Cryopreserved
PB425/127N	CD4 <sup>+</sup> /CD25 <sup>+</sup> /CD127 <sup>-</sup> Regulatory T Cells	Custom	Custom
PB425	CD4 <sup>+</sup> /CD25 <sup>+</sup> Regulatory T Cells	Custom	Custom
PB56C-1	CD56 <sup>+</sup> NK Cells	5 x 10 <sup>6</sup> cells	Cryopreserved
PB56C-2	CD56 <sup>+</sup> NK Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB56NC-1	CD56 <sup>+</sup> NK Cells, Negative Selection	5 x 10 <sup>6</sup> cells	Cryopreserved
PB56NC-2	CD56 <sup>+</sup> NK Cells, Negative Selection	10 x 10 <sup>6</sup> cells	Cryopreserved
PB56	CD56 <sup>+</sup> NK Cells	Custom	Custom
PB010C-1	Dendritic Cells	2 x 10 <sup>6</sup> cells	Cryopreserved
PB010	Dendritic Cells	Custom	Custom
PB011C-1	Neutrophils	10 x 10 <sup>6</sup> cells	Cryopreserved
PB011C-2	Neutrophils	25 x 10 <sup>6</sup> cells	Cryopreserved
PB011	Neutrophils	Custom	Custom
PB____C-MON-1	[M1, M2, Mixed] Macrophages (Monocyte Derived)	2 x 10 <sup>6</sup> cells	Cryopreserved
PB____C-MON-2	[M1, M2, Mixed] Macrophages (Monocyte Derived)	5 x 10 <sup>6</sup> cells	Cryopreserved
PB____C-MON-3	[M1, M2, Mixed] Macrophages (Monocyte Derived)	10 x 10 <sup>6</sup> cells	Cryopreserved
PB____F-MON-3	[M1, M2, Mixed] Macrophages (Monocyte Derived)	10 x 10 <sup>6</sup> cells	Fresh
PB____-MON	[M1, M2, Mixed] Macrophages (Monocyte Derived)	Custom	Custom

M1 = M1 Macrophage; M2 = M2 Macrophage; MAC = Mixed Macrophage

Don't see a specific product needed for your research? Contact us as we have the ability to customize collections and processing.



**HemaCare**  
Your research. Our cells. Your way.

# Mobilized Peripheral Blood

**Mobilized Peripheral Blood** cells are collected from healthy human volunteers using the COBE® Spectra or Spectra Optia® Apheresis System. Donors are injected with MOZOBIL®, G-CSF (Neupogen®), or a combination of MOZOBIL® and G-CSF, which stimulates the bone marrow to produce a large number of hematopoietic and progenitor stem cells and mobilizes them into the peripheral blood stream. This mononuclear cell-rich leukapheresis product is extracted using continuous flow centrifugal technology directly into the collection bag.

## HemaCare Preferred for Mobilized

- Highly characterized donor pool
- FDA registered collection centers and strict adherence to validated protocols
- Rigorous operational controls and quality systems for cell processing and preservation

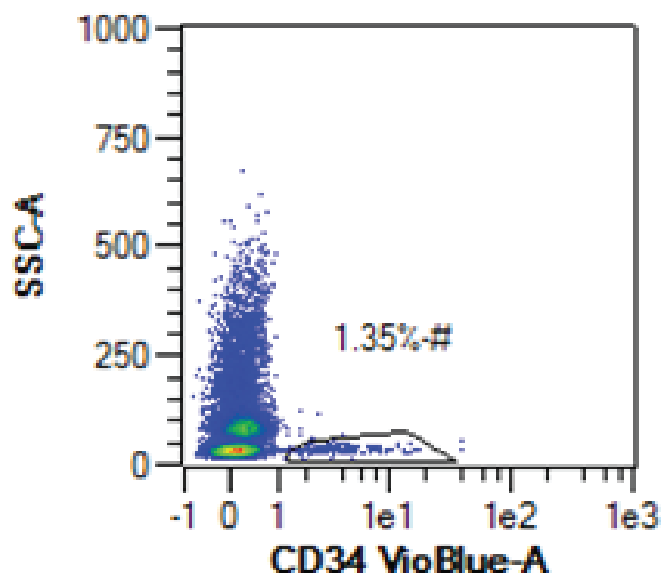
## Consent, Collection, and Screening

- Donors review and sign an institutional review board (IRB) approved procedure-specific consent form prior to the collection.
- Collection in HemaCare's FDA-registered, AABB-accredited collection center.
- Products are negative for Hepatitis B, Hepatitis C, HIV 1/2, HTLV-I/II, HIV-1/HCV/HBV Nucleic Acid, WNV Nucleic Acid, Trypanasoma cruzi, and Syphilis.

## Ordering and Shipping

	Fresh	Cryopreserved
<b>Lead Time</b>	6-8 Weeks	1-2 Business Days
<b>Shipping Conditions</b>	Leukopak: Room Temp. Isolated Cells: Wet Ice	Dry Ice

HemaCare can ship per your requested specifications.



Percent of CD34 stem cells in a represented mobilized leukopak.

### Place an Order

- ☎ 877.397.3087
- ✉ bioresearchproducts@hemacare.com
- 📠 818.647.0232
- 🌐 www.hemacare.com

### Technical Support

- ☎ 877.944.4362

### Connect With Us

- 🌐 HemaCare Corporation
- 🐦 @HC\_BioResearch
- 📘 HemaCare BioResearch Products





# Mobilized Peripheral Blood

Catalog #	Product Description	Average Size	Format
M001F-MOZ-1	Mobilized PB Leukopak; Mozobil Only	1 Bag	Fresh
M001F-MOZ-2	Mobilized PB Leukopak; Mozobil Only - 2 Day Stim	2 Bags	Fresh
M001F-GCSF/MOZ-1	Mobilized PB Leukopak; G-CSF and Mozobil	1 Bag (Day 6)	Fresh
M001F-GCSF/MOZ-2	Mobilized PB Leukopak; G-CSF and Mozobil	2 Bags (Day 5 and 6)	Fresh
M001F-GCSF-1	Mobilized PB Leukopak; G-CSF - 3 Day Stim	1 Bag	Fresh
M001F-GCSF-2	Mobilized PB Leukopak; G-CSF - 4 Day Stim	1 Bag	Fresh
M001F-GCSF-3	Mobilized PB Leukopak; G-CSF - 5 Day Stim	1 Bag	Fresh
M001F-GCSF-4	Mobilized PB Leukopak; G-CSF - 5 Day Stim	2 Bags (Day 5 and 6)	Fresh
M001	Mobilized PB Leukopak	Custom	Custom
M009C-1	Mononuclear Cells	50 x 10 <sup>6</sup> cells	Cryopreserved
M009C-2	Mononuclear Cells	100 x 10 <sup>6</sup> cells	Cryopreserved
M009C-3	Mononuclear Cells	250 x 10 <sup>6</sup> cells	Cryopreserved
M009F-3	Mononuclear Cells	500 x 10 <sup>6</sup> cells	Fresh
M009	Mononuclear Cells	Custom	Custom
M34DC-1	CD34 Depleted Mononuclear Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
M34D	CD34 Depleted Mononuclear Cells	Custom	Custom
M34C-1	CD34 <sup>+</sup> Stem/Progenitor Cells	1 x 10 <sup>6</sup> cells	Cryopreserved
M34C-2	CD34 <sup>+</sup> Stem/Progenitor Cells	5 x 10 <sup>6</sup> cells	Cryopreserved
M34C-3	CD34 <sup>+</sup> Stem/Progenitor Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
M34C-4	CD34 <sup>+</sup> Stem/Progenitor Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
M34F-5	CD34 <sup>+</sup> Stem/Progenitor Cells	50 x 10 <sup>6</sup> cells	Fresh
M34	CD34 <sup>+</sup> Stem/Progenitor Cells	Custom	Custom
M133C-1	CD133 <sup>+</sup> Stem/Progenitor Cells	1 x 10 <sup>6</sup> cells	Cryopreserved
M133C-2	CD133 <sup>+</sup> Stem/Progenitor Cells	2.5 x 10 <sup>6</sup> cells	Cryopreserved
M133C-3	CD133 <sup>+</sup> Stem/Progenitor Cells	5 x 10 <sup>6</sup> cells	Cryopreserved
M133F-3	CD133 <sup>+</sup> Stem/Progenitor Cells	5 x 10 <sup>6</sup> cells	Fresh
M133	CD133 <sup>+</sup> Stem/Progenitor Cells	Custom	Custom

Please allow a 6 - 8 week lead time for FRESH and CUSTOM mobilized products.

Don't see a specific product needed for your research? Contact us as we have the ability to customize collections and processing.



# Bone Marrow

**Bone Marrow** aspirates and cells are collected from normal human volunteers drawn from the posterior iliac crest using a syringe containing anticoagulant.

## Consent, Collection, and Screening

- Donors review and sign an institutional review board (IRB) approved procedure-specific consent form prior to the collection.
- Collected by external collection centers that have been qualified by HemaCare's QA Department.
- Products are negative for Hepatitis B, Hepatitis C, HIV 1/2, HTLV-I/II, HIV-1/HCV/HBV Nucleic Acid, WNV Nucleic Acid, Trypanasoma cruzi, and Syphilis.

## Ordering and Shipping

	Fresh	Cryopreserved
<b>Lead Time</b>	3-4 Weeks	1-2 Business Days
<b>Shipping Conditions</b>	Unprocessed: Room Temp. Isolated Cells: Wet Ice	Dry Ice

HemaCare can ship per your requested specifications.

### Place an Order

- ☎ 877.397.3087
- ✉ bioresearchproducts@hemacare.com
- 📄 818.647.0232
- 🌐 www.hemacare.com

### Technical Support

- ☎ 877.944.4362

### Connect With Us

- 🌐 HemaCare Corporation
- 🐦 @HC\_BioResearch
- 📘 HemaCare BioResearch Products

Catalog #	Product Description	Average Size	Format
BM008F-2	Unprocessed Bone Marrow*	25 mL	Fresh
BM008F-3	Unprocessed Bone Marrow*	50 mL	Fresh
BM008F-4	Unprocessed Bone Marrow*	100 mL	Fresh
BM008	Unprocessed Bone Marrow*	Custom	Custom
<i>*Matched whole blood available, please inquire prior to order.</i>			
BM009C-1	Mononuclear Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
BM009C-2	Mononuclear Cells	100 x 10 <sup>6</sup> cells	Cryopreserved
BM009	Mononuclear Cells	Custom	Custom
BM34D	CD34 Depleted Mononuclear Cells	Custom	Custom
BM012C-1	Mesenchymal Stem Cells (MSC)	1 x 10 <sup>6</sup> cells	Cryopreserved
BM012	Mesenchymal Stem Cells (MSC)	Custom	Custom
BM34C-1	CD34 <sup>+</sup> Stem/Progenitor Cells	1 x 10 <sup>5</sup> cells	Cryopreserved
BM34C-2	CD34 <sup>+</sup> Stem/Progenitor Cells	2.5 x 10 <sup>5</sup> cells	Cryopreserved
BM34C-3	CD34 <sup>+</sup> Stem/Progenitor Cells	5 x 10 <sup>5</sup> cells	Cryopreserved
BM34C-5	CD34 <sup>+</sup> Stem/Progenitor Cells	1 x 10 <sup>6</sup> cells	Cryopreserved
BM34C-4	CD34 <sup>+</sup> Stem/Progenitor Cells	2 x 10 <sup>6</sup> cells	Cryopreserved
BM34	CD34 <sup>+</sup> Stem/Progenitor Cells	Custom	Custom
BM133C-1	CD133 <sup>+</sup> Stem/Progenitor Cells	1 x 10 <sup>5</sup> cells	Cryopreserved
BM133C-2	CD133 <sup>+</sup> Stem/Progenitor Cells	5 x 10 <sup>5</sup> cells	Cryopreserved
BM133	CD133 <sup>+</sup> Stem/Progenitor Cells	Custom	Custom

Don't see a specific product needed for your research?

Contact us as we have the ability to customize collections and processing.



# Cord Blood

**Cord Blood** is collected aseptically at the time of delivery from healthy pregnant women into a sterile bag containing anticoagulant. HemaCare is able to isolate various cells from cord blood.

## Consent, Collection, and Screening

- Donors review and sign an institutional review board (IRB) approved procedure-specific consent form prior to the collection.
- Collected by external collection centers that have been qualified by HemaCare's QA Department.
- Products are negative for HIV, HBV, HCV, HTLVII/II, Syphilis, WNV, and Chagas.

## Ordering and Shipping

	Fresh	Cryopreserved
<b>Lead Time</b>	3 Weeks	1-2 Business Days
<b>Shipping Conditions</b>	Unprocessed: Room Temp. Isolated Cells: Wet Ice	Dry Ice

*HemaCare can ship per your requested specifications.*

### Place an Order

- ☎ 877.397.3087
- ✉ bioresearchproducts@hemacare.com
- 📠 818.647.0232
- 🌐 www.hemacare.com

### Technical Support

- ☎ 877.944.4362

### Connect With Us

- 🌐 HemaCare Corporation
- 🐦 @HC\_BioResearch
- 📘 HemaCare BioResearch Products

Catalog #	Product Description	Average Size	Format
CB000-F-1-ABF	Umbilical Cord Tissue; without Antibiotics	7-15 inches	Fresh
CB000-F-1-AB	Umbilical Cord Tissue; with Antibiotics	7-15 inches	Fresh
CB008F-0	Unprocessed Cord Blood	0.8 - <1 x 10 <sup>9</sup> cells	Fresh
CB008F-1	Unprocessed Cord Blood	>1 x 10 <sup>9</sup> cells	Fresh
CB008	Unprocessed Cord Blood	Custom	Custom
CB71C-1	Nucleated Red Blood Cells (nRBC)	10 x 10 <sup>6</sup> cells	Cryopreserved
CB71C-2	Nucleated Red Blood Cells (nRBC)	25 x 10 <sup>6</sup> cells	Cryopreserved
CB71	Nucleated Red Blood Cells (nRBC)	Custom	Custom
CB006C-1	Plasma	10 mL	Cryopreserved
CB006	Plasma	Custom	Custom

[more on reverse side](#)



# Cord Blood

Catalog #	Product Description	Average Size	Format
CB009C-1	Mononuclear Cells	25 x 10 <sup>6</sup> cells	Cryopreserved
CB009C-2	Mononuclear Cells	100 x 10 <sup>6</sup> cells	Cryopreserved
CB009C-3	Mononuclear Cells	200 x 10 <sup>6</sup> cells	Cryopreserved
CB009	Mononuclear Cells	Custom	Custom
CB34D	CD34 Depleted Mononuclear Cells	Custom	Custom
CB133D	CD133 Depleted Mononuclear Cells	Custom	Custom
CB03C-1	CD3 <sup>+</sup> Pan T Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
CB03	CD3 <sup>+</sup> Pan T Cells	Custom	Custom
CB04C-1	CD4 <sup>+</sup> Helper T Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
CB04	CD4 <sup>+</sup> Helper T Cells	Custom	Custom
CB08C-1	CD8 <sup>+</sup> Cytotoxic T Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
CB08	CD8 <sup>+</sup> Cytotoxic T Cells	Custom	Custom
CB14C-1	CD14 <sup>+</sup> Monocytes	5 x 10 <sup>6</sup> cells	Cryopreserved
CB14C-2	CD14 <sup>+</sup> Monocytes	10 x 10 <sup>6</sup> cells	Cryopreserved
CB14	CD14 <sup>+</sup> Monocytes	Custom	Custom
CB19C-1	CD19 <sup>+</sup> B Cells	1 x 10 <sup>6</sup> cells	Cryopreserved
CB19	CD19 <sup>+</sup> B Cells	Custom	Custom
CB34C-1	CD34 <sup>+</sup> Stem/Progenitor Cells	1 x 10 <sup>5</sup> cells	Cryopreserved
CB34C-2	CD34 <sup>+</sup> Stem/Progenitor Cells	5 x 10 <sup>5</sup> cells	Cryopreserved
CB34C-3	CD34 <sup>+</sup> Stem/Progenitor Cells	1 x 10 <sup>6</sup> cells	Cryopreserved
CB34	CD34 <sup>+</sup> Stem/Progenitor Cells	Custom	Custom
CB133	CD133 <sup>+</sup> Stem/Progenitor Cells	Custom	Custom
CB56C-1	CD56 <sup>+</sup> NK Cells	1 x 10 <sup>6</sup> cells	Cryopreserved
CB56	CD56 <sup>+</sup> NK Cells	Custom	Custom
CB011	Neutrophils	Custom	Custom

Don't see a specific product needed for your research? Contact us as we have the ability to customize collections and processing.





# Disease State

HemaCare provides researchers with a wide variety of well-characterized primary cells and biological components through our broad and diverse US-based procurement network for use in basic, clinical, and translational research studies.

## Collection

Our network consists of community hospitals, physician groups, and multi-specialty clinics that have been qualified by HemaCare's QA Department. Because of our strong relationship with these sites, we are able to:

- Provide rapid turn-around time for product procurement
- Offer a broad array of sample types for a variety of patient demographic
- Adhere to the specifications and quality required for specimen acquisition outlined by most research protocols

## Ordering and Shipping

	Fresh	Cryopreserved
Lead Time	Inquire	1-2 Business Days
Shipping Conditions	Whole Blood: Room Temp. Plasma/Serum: Room Temp. Isolated Cells: Wet Ice	Dry Ice

HemaCare can ship per your requested specifications.

## Screening

All disease state products are tested with the exception of HIV, Hepatitis B, and Hepatitis C disease state products.

### Fresh

- Products are screened for Hepatitis B, Hepatitis C, HIV 1/2, and HTLV-I/II, HIV-1/HCV/HBV Nucleic Acid the day of collection. Results are available a few days following shipment.

### Cryopreserved

- Products are negative for Hepatitis B, Hepatitis C, HIV 1/2, and HTLV-I/II, HIV-1/HCV/HBV Nucleic Acid.

### Place an Order

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- 📠 818.647.0232
- 🌐 [www.hemacare.com](http://www.hemacare.com)

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# Disease State

Catalog #	Product Description	Average Size	Format
<b>Peripheral Blood Derived</b>			
PB001F-2-DS	Leukopak - Half Collection	1/2 Bag	Fresh
PB001F-3-DS	Leukopak - Quarter Collection	1/4 Bag	Fresh
PB000F-2-____	Whole Blood	10 mL	Fresh
PB000-____	Whole Blood	Custom	Custom
PB006C-1-____	Plasma - Specimen Tube	2 mL	Cryopreserved
PB006-____	Plasma - Specimen Tube	Custom	Custom
PB007C-1-____	Serum - Specimen Tube	2 mL	Cryopreserved
PB007-____	Serum - Specimen Tube	Custom	Custom
PB009C-1-____	Mononuclear Cells - BLOOD CANCER	10 x 10 <sup>6</sup> cells	Cryopreserved
PB009C-1-____	Mononuclear Cells - SOLID TUMOR	10 x 10 <sup>6</sup> cells	Cryopreserved
PB009C-1-____	Mononuclear Cells - NON-CANCER	10 x 10 <sup>6</sup> cells	Cryopreserved
PB009C-1-HIV	Mononuclear Cells	10 x 10 <sup>6</sup> cells	Cryopreserved
PB009-____	Mononuclear Cells	Custom	Custom
<b>Bone Marrow Derived</b>			
BM008-DS	Unprocessed Bone Marrow	Custom	Custom

## Disease State Codes

Acute Myeloid Leukemia [-AML]	Human Papillomavirus [-HPV]
Autism [-AU]	Kidney Cancer [-KC]
Beta Thalassemia [-BT]	Lung Cancer [-LC]
Bladder Cancer [-BLC]	Melanoma [MN]
Breast Cancer [-BC]	Multiple Myeloma [-MM]
Celiac Disease [-CED]	Multiple Sclerosis [-MS]
Chronic Lymphocytic Leukemia [-CLL]	Myelodysplastic Syndrome [-MDS]
Chronic Myeloid Leukemia [-CML]	Non-Hodgkin's Lymphoma [-NHL]
Chronic Obstructive Pulmonary Disease [-COPD]	Ovarian Cancer [-OC]
Colorectal Cancer [-CRC]	Parkinson's Disease [-PD]
Crohn's Disease [-CD]	Prostate Cancer [-PC]
Diabetes Mellitus Type 2 [-DM2]	Psoriasis [-PSO]
Gastric Cancer [-GC]	Psoriatic Arthritis [-PA]
Head and Neck Cancer [-HNC]	Renal Cell Carcinoma [-RCC]
Hepatitis B Virus [-HBV]	Rheumatoid Arthritis [-RA]
Hepatitis C Virus [-HCV]	Sickle Cell Disease [-SCD]
Herpes Simplex Virus 1 [-HSV1]	Syphilis [-SYP]
Herpes Simplex Virus 2 [-HSV2]	Systemic Lupus Erythematosus [-SLE]
Human Immunodeficiency Virus [-HIV]	Ulcerative Colitis [-UC]

Don't see a specific product or disease state needed for your research? Contact us as we have the ability to customize collections and processing.



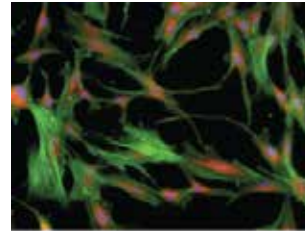
# Preservation Media

Success in the regenerative medicine, biobanking, and drug discovery industries depends on the shelf life and viability of cells, tissues, and organs designated for research or clinical applications. Hand in hand with many of these applications is the need for high quality biologically functional cells. BioLife Solutions and HemaCare have partnered to provide controlled, consistently functional cells and cGMP-grade preservation media products. This media significantly extends stability and improves post-preservation viability and function of your biologic source material, intermediates, and final products.

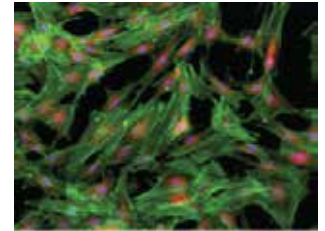


## CryoStor®

Pre-formulated with 2, 5, 10%, or a custom volume of USP-grade DMSO, CryoStor yields superior post-thaw cell viability, recovery, and function. Serum-free and protein-free!



Cryopreserved with serum

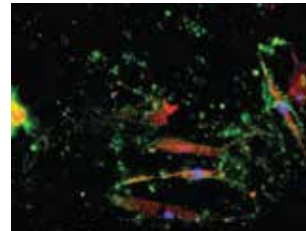


Cryopreserved in serum-free CryoStor

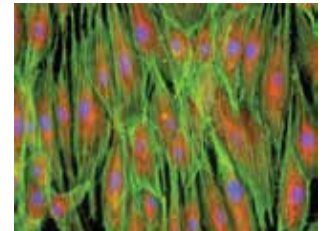


## HypoThermosol®

Protein-free, serum-free hypothermic storage media are designed for maximum shelf life and shipping stability at 2-8°C.



Biopreserved in Home-Brew Media



Biopreserved in HypoThermosol

Catalog #	Product Description	Average Size
202102	CryoStor CS2	100 mL bottle
205102	CryoStor CS5	100 mL bottle
210373	CryoStor CS10	10 mL vial
210374	CryoStor CS10	16 mL vial
210102	CryoStor CS10	100 mL bottle
210202	CryoStor CS10	100 mL bag
<hr/>		
101102	HypoThermosol FRS	100 mL bottle
101104	HypoThermosol FRS	500 mL bottle
101204	HypoThermosol FRS	500 mL IV bag

### Place an Order

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