

Human Primary Hematopoietic Cells for Advancement of Your Research

2016 Product Catalog



Your Research • Our Cells • Your Way



HemaCare
BioResearch Products & Services

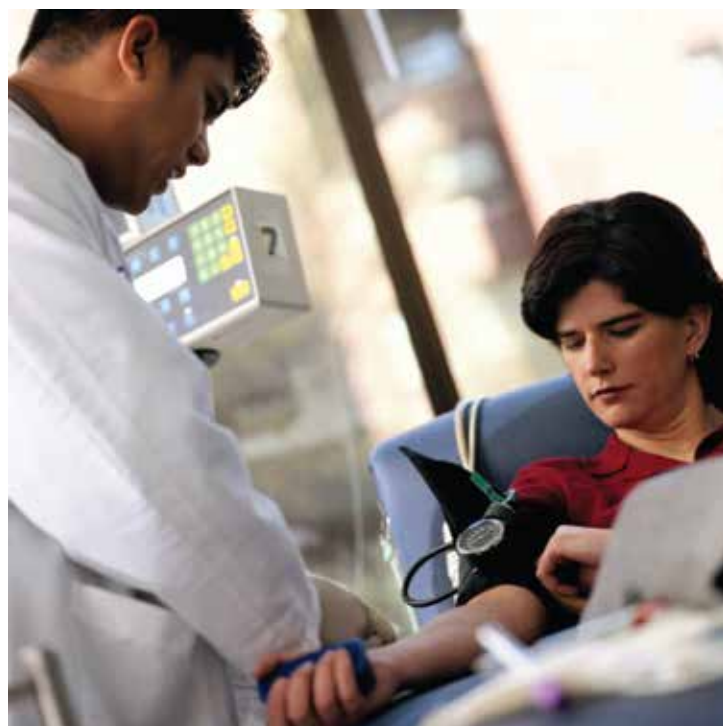
HemaCare is a global provider of human hematopoietic primary cells and services to cell therapy and life science researchers. We have customized our focus on consistent, high quality product derived from profiled donors drawn in our own FDA-registered, AABB accredited collection facility. We perform 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

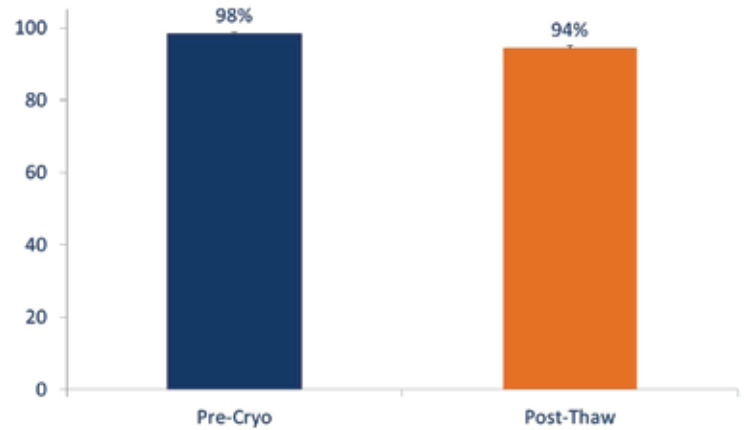
“The last collection couldn't be any better! I want to add that the staff at HemaCare have been invaluable and a joy to work with.”

-Argos Therapeutics, Inc.

Primary Human Blood Cells And Blood Components

Peripheral Blood

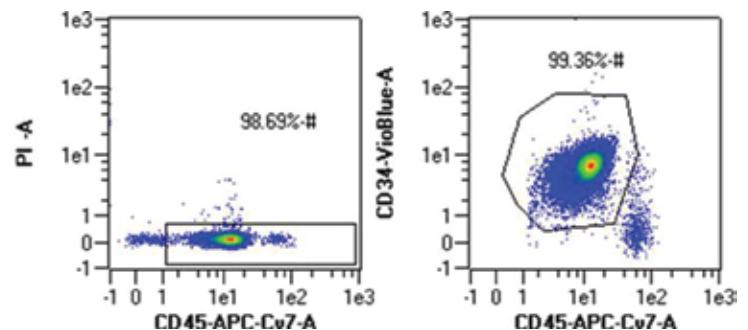
- Leukopak, Platelets, Whole Blood, Plasma, Serum
- Mononuclear Cells, Dendritic Cells, Macrophages, Neutrophils
- CD3⁺ Pan T Cells, CD4⁺ Helper T Cells, CD8⁺ Cytotoxic T Cells, CD14⁺ Monocytes, CD19⁺ B Cells, CD56⁺ NK Cells, Regulatory T Cells



PBMC viability is measured pre and post cryopreservation.

Mobilized Peripheral Blood

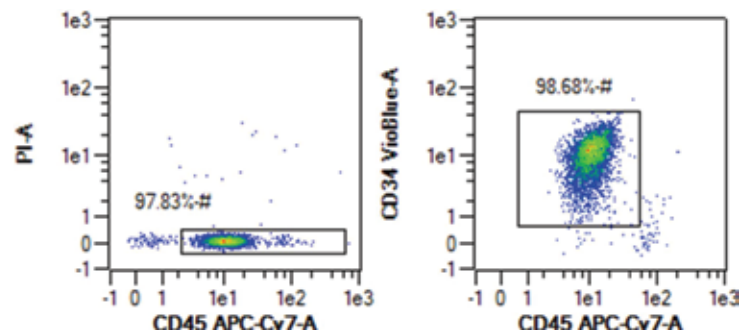
- Leukopak*
 - Mononuclear Cells
 - CD34⁺ Stem/Progenitor Cells, CD133⁺ Stem/Progenitor Cells
- *MOZOBIL[®], G-CSF, or combination*



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

Bone Marrow

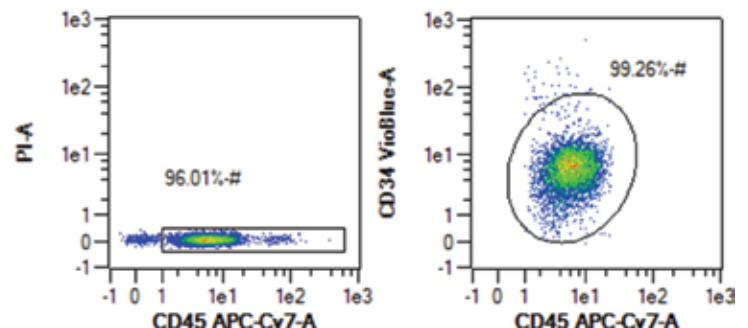
- Unprocessed Bone Marrow
 - Mononuclear Cells
 - Mesenchymal Stem Cells (MSC), CD34⁺ Stem/Progenitor Cells, CD133⁺ Stem/Progenitor Cells
- *Matched bone marrow and whole blood available upon request*



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

Cord Blood

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



Viability and purity of freshly isolated CD34⁺ 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.bio-rev.com
Email: sales@bio-rev.com
Phone: +65 6273 3022
Fax: +65 6273 3020
Mail: 36 Toh Guan Road East
#01-39 Enterprise Hub
Singapore 608 580

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, 8 AM to 6 PM PST
Email: techserv@bio-rev.com
Phone: +65 6273 3022
Fax: +65 6273 3020

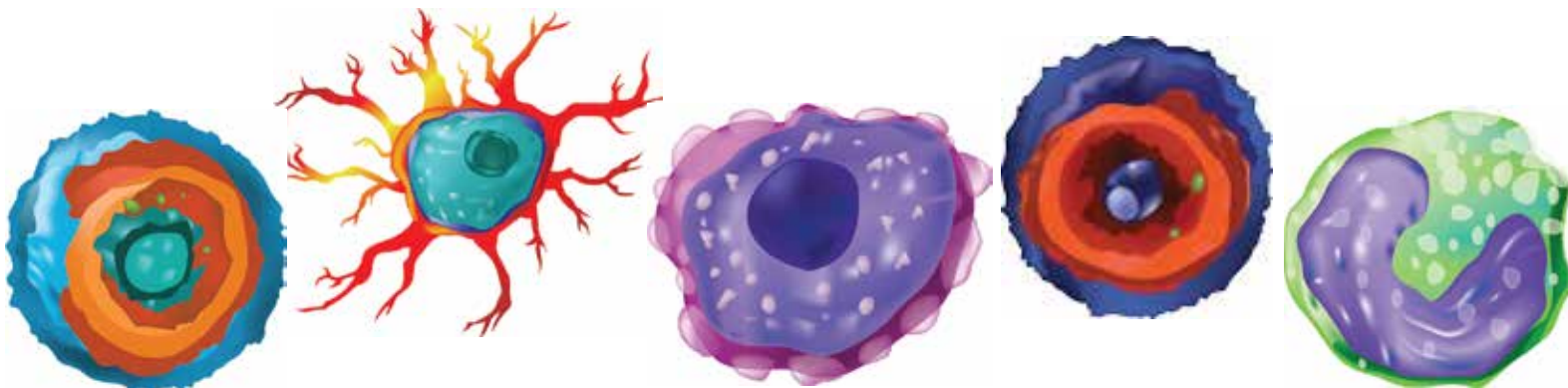
Lead Times

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 products and four weeks for bone marrow and 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.



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

HemaCare's expertise in apheresis for over 38 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?

- Ability to provide trackable donor collection results and critical information needed to select specific donors and support documentation requirements
- Donors can be recalled for repeat collections, resulting in a high degree of consistency and reproducibility
- Ability to collect per your protocol and/or customize (i.e. isolation, fresh or frozen, custom cell number/volume per unit, 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 and density gradient centrifugation.

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.

Options

- PB001F-1 Leukopak - Full Collection; Fresh
- PB001F-2 Leukopak - Half Collection; Fresh
- PB001F-3 Leukopak - Quarter Collection; Fresh
- PB001C-1 Leukopak - Full Collection; Cryo
- PB001C-2 Leukopak - Half Collection; Cryo
- PB001C-3 Leukopak - Quarter Collection; Cryo
- PB001C-4 Leukopak - 2-2.5 x 10⁹ MNCs; Cryo
- PB001 Leukopak - Custom

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
 - CMV status, ABO blood type, HLA results
 - Ability to provide both **repeat** and **unique** donors
 - Other specific parameters



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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
Lead Time	1 Week	1-2 Business Days
Shipping Conditions	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

- ☎ +65 6273 3022
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- 🌐 www.bio-rev.com

Technical Support

- ☎ techserv@bio-rev.com

Connect With Us

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- 📘 Bio-REV

Catalog #	Product Description	Average Size	Format
PB001C-1	Leukopak - Full Collection	1 Bag	Cryopreserved
PB001C-2	Leukopak - Half Collection	½ Bag	Cryopreserved
PB001C-3	Leukopak - Quarter Collection	¼ Bag	Cryopreserved
PB001C-4	Leukopak - Partial, Guaranteed Cell Count	2-2.5 x 10 ⁹ 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	Leukapheresis-derived Plasma - Cryo Vial	2 mL	Cryopreserved
PB006C-2	Leukapheresis-derived Plasma - Cryo Vial	5 mL	Cryopreserved
<i>Cryopreserved vials of plasma are collected in ACD-A. Matched pairs with isolated cells listed below 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 ⁹ platelets	Fresh

more on reverse side



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Peripheral Blood

Catalog #	Product Description	Average Size	Format
PB009C-1	Mononuclear Cells	10 x 10 ⁶ cells	Cryopreserved
PB009C-2	Mononuclear Cells	25 x 10 ⁶ cells	Cryopreserved
PB009C-50	Mononuclear Cells	50 x 10 ⁶ cells	Cryopreserved
PB009C-3	Mononuclear Cells	100 x 10 ⁶ cells	Cryopreserved
PB009F-3	Mononuclear Cells	250 x 10 ⁶ cells	Fresh
PB009F-4	Mononuclear Cells	500 x 10 ⁶ cells	Fresh
PB009	Mononuclear Cells	Custom	Custom
PB03C-1	CD3 ⁺ Pan T Cells	5 x 10 ⁶ cells	Cryopreserved
PB03C-2	CD3 ⁺ Pan T Cells	10 x 10 ⁶ cells	Cryopreserved
PB03C-3	CD3 ⁺ Pan T Cells	25 x 10 ⁶ cells	Cryopreserved
PB03C-4	CD3 ⁺ Pan T Cells	50 x 10 ⁶ cells	Cryopreserved
PB03NC-1	CD3 ⁺ Pan T Cells, Negative Selection	5 x 10 ⁶ cells	Cryopreserved
PB03NC-2	CD3 ⁺ Pan T Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
PB03NC-3	CD3 ⁺ Pan T Cells, Negative Selection	25 x 10 ⁶ cells	Cryopreserved
PB03	CD3 ⁺ Pan T Cells	Custom	Custom
PB03-TCRG/D-1	CD3 ⁺ Gamma/Delta T Cells	Custom	Custom
PB04C-1	CD4 ⁺ Helper T Cells	10 x 10 ⁶ cells	Cryopreserved
PB04C-2	CD4 ⁺ Helper T Cells	25 x 10 ⁶ cells	Cryopreserved
PB04F-1	CD4 ⁺ Helper T Cells	10 x 10 ⁶ cells	Fresh
PB04NC-1	CD4 ⁺ Helper T Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
PB04	CD4 ⁺ Helper T Cells	Custom	Custom
PB0445RAC-1	Naïve CD4 Helper T Cells	5 x 10 ⁶ cells	Cryopreserved
PB0445RA	Naïve CD4 Helper T Cells	Custom	Custom
PB08NC-1	CD8 ⁺ Cytotoxic T Cells, Negative Selection	5 x 10 ⁶ cells	Cryopreserved
PB08NC-2	CD8 ⁺ Cytotoxic T Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
PB08NC-3	CD8 ⁺ Cytotoxic T Cells, Negative Selection	25 x 10 ⁶ cells	Cryopreserved
PB08	CD8 ⁺ Cytotoxic T Cells	Custom	Custom
PB14C-1	CD14 ⁺ Monocytes	10 x 10 ⁶ cells	Cryopreserved
PB14C-2	CD14 ⁺ Monocytes	25 x 10 ⁶ cells	Cryopreserved
PB14C-3	CD14 ⁺ Monocytes	50 x 10 ⁶ cells	Cryopreserved
PB14F-1	CD14 ⁺ Monocytes	10 x 10 ⁶ cells	Fresh
PB14F-2	CD14 ⁺ Monocytes	25 x 10 ⁶ cells	Fresh
PB14F-3	CD14 ⁺ Monocytes	50 x 10 ⁶ cells	Fresh
PB14NC-1	CD14 ⁺ Monocytes, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
PB14NC-2	CD14 ⁺ Monocytes, Negative Selection	25 x 10 ⁶ cells	Cryopreserved
PB14NC-3	CD14 ⁺ Monocytes, Negative Selection	50 x 10 ⁶ cells	Cryopreserved
PB14	CD14 ⁺ Monocytes	Custom	Custom
PB19C-1	CD19 ⁺ B Cells	5 x 10 ⁶ cells	Cryopreserved
PB19C-2	CD19 ⁺ B Cells	10 x 10 ⁶ cells	Cryopreserved
PB19C-3	CD19 ⁺ B Cells	25 x 10 ⁶ cells	Cryopreserved
PB19NC-1	CD19 ⁺ B Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
PB19	CD19 ⁺ B Cells	Custom	Custom
PB425	CD4 ⁺ /CD25 ⁺ Regulatory T Cells	Custom	Custom
PB56NC-1	CD56 ⁺ NK Cells, Negative Selection	5 x 10 ⁶ cells	Cryopreserved
PB56NC-2	CD56 ⁺ NK Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
PB56	CD56 ⁺ NK Cells	Custom	Custom
PB010C-1	Dendritic Cells	2 x 10 ⁶ cells	Cryopreserved
PB010	Dendritic Cells	Custom	Custom
PB011C-1	Neutrophils	10 x 10 ⁶ cells	Cryopreserved
PB011C-2	Neutrophils	25 x 10 ⁶ cells	Cryopreserved
PB011	Neutrophils	Custom	Custom
PB____C-MON-1	[M1, M2, Mixed] Macrophages (Monocyte Derived)	2 x 10 ⁶ cells	Cryopreserved
PB____C-MON-2	[M1, M2, Mixed] Macrophages (Monocyte Derived)	5 x 10 ⁶ cells	Cryopreserved
PB____C-MON-3	[M1, M2, Mixed] Macrophages (Monocyte Derived)	10 x 10 ⁶ cells	Cryopreserved
PB____F-MON-1	[M1, M2, Mixed] Macrophages (Monocyte Derived)	2 x 10 ⁶ cells	Fresh
PB____F-MON-2	[M1, M2, Mixed] Macrophages (Monocyte Derived)	5 x 10 ⁶ cells	Fresh
PB____F-MON-3	[M1, M2, Mixed] Macrophages (Monocyte Derived)	10 x 10 ⁶ 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.



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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

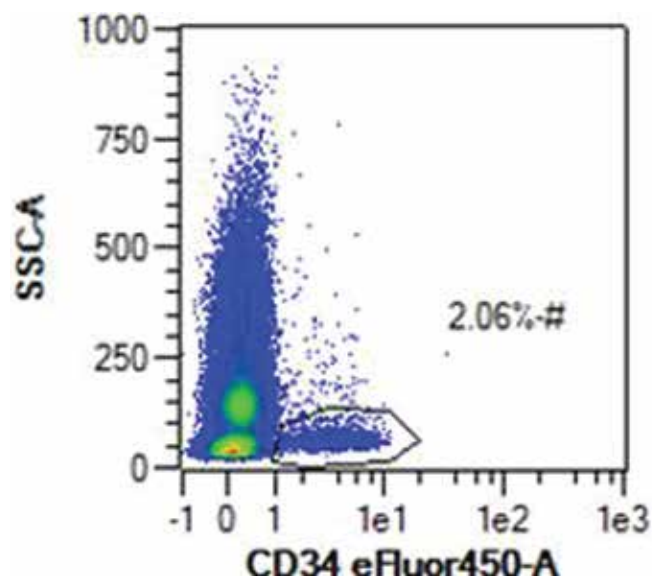
Consent, Collection, and Screening

- 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
Lead Time	4 Weeks	1-2 Business Days
Shipping Conditions	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

- +65 6273 3022
- sales@bio-rev.com
- +65 6273 3020
- www.bio-rev.com

Technical Support

- techserv@bio-rev.com

Connect With Us

- Bio-REV Pte Ltd
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Mobilized Peripheral Blood

Catalog #	Product Description	Average Size	Format
M001F-MOZ-1	Mobilized PB Leukopak; MOZOBIL® Only	1 Bag	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 ⁶ cells	Cryopreserved
M009C-2	Mononuclear Cells	100 x 10 ⁶ cells	Cryopreserved
M009C-3	Mononuclear Cells	250 x 10 ⁶ cells	Cryopreserved
M009F-1	Mononuclear Cells	100 x 10 ⁶ cells	Fresh
M009F-2	Mononuclear Cells	250 x 10 ⁶ cells	Fresh
M009F-3	Mononuclear Cells	500 x 10 ⁶ cells	Fresh
M009	Mononuclear Cells	Custom	Custom
M34DC-1	CD34 Depleted Mononuclear Cells	25 x 10 ⁶ cells	Cryopreserved
M34D	CD34 Depleted Mononuclear Cells	Custom	Custom
M34C-1	CD34 ⁺ Stem/Progenitor Cells	1 x 10 ⁶ cells	Cryopreserved
M34C-2	CD34 ⁺ Stem/Progenitor Cells	5 x 10 ⁶ cells	Cryopreserved
M34C-3	CD34 ⁺ Stem/Progenitor Cells	10 x 10 ⁶ cells	Cryopreserved
M34C-4	CD34 ⁺ Stem/Progenitor Cells	25 x 10 ⁶ cells	Cryopreserved
M34F-1	CD34 ⁺ Stem/Progenitor Cells	1 x 10 ⁶ cells	Fresh
M34F-2	CD34 ⁺ Stem/Progenitor Cells	5 x 10 ⁶ cells	Fresh
M34F-3	CD34 ⁺ Stem/Progenitor Cells	10 x 10 ⁶ cells	Fresh
M34F-4	CD34 ⁺ Stem/Progenitor Cells	25 x 10 ⁶ cells	Fresh
M34F-5	CD34 ⁺ Stem/Progenitor Cells	50 x 10 ⁶ cells	Fresh
M34	CD34 ⁺ Stem/Progenitor Cells	Custom	Custom
M133C-1	CD133 ⁺ Stem/Progenitor Cells	1 x 10 ⁶ cells	Cryopreserved
M133C-2	CD133 ⁺ Stem/Progenitor Cells	2.5 x 10 ⁶ cells	Cryopreserved
M133C-3	CD133 ⁺ Stem/Progenitor Cells	5 x 10 ⁶ cells	Cryopreserved
M133F-1	CD133 ⁺ Stem/Progenitor Cells	1 x 10 ⁶ cells	Fresh
M133F-2	CD133 ⁺ Stem/Progenitor Cells	2.5 x 10 ⁶ cells	Fresh
M133F-3	CD133 ⁺ Stem/Progenitor Cells	5 x 10 ⁶ cells	Fresh
M133	CD133 ⁺ Stem/Progenitor Cells	Custom	Custom

Please allow a 4- 6 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.



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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
Lead Time	4 Weeks	1-2 Business Days
Shipping Conditions	Unprocessed: Room Temp. Isolated Cells: Wet Ice	Dry Ice

HemaCare can ship per your requested specifications.

Place an Order

- +65 6273 3022
- sales@bio-rev.com
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- www.bio-rev.com

Technical Support

- techserv@bio-rev.com

Connect With Us

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- @BioREV
- Bio-REV

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 ⁶ cells	Cryopreserved
BM009C-2	Mononuclear Cells	100 x 10 ⁶ cells	Cryopreserved
BM009	Mononuclear Cells	Custom	Custom
BM34D	CD34 Depleted Mononuclear Cells	Custom	Custom
BM012C-1	Mesenchymal Stem Cells (MSC)	1 x 10 ⁶ cells	Cryopreserved
BM012	Mesenchymal Stem Cells (MSC)	Custom	Custom
BM34C-1	CD34 ⁺ Stem/Progenitor Cells	1 x 10 ⁵ cells	Cryopreserved
BM34C-2	CD34 ⁺ Stem/Progenitor Cells	2.5 x 10 ⁵ cells	Cryopreserved
BM34C-3	CD34 ⁺ Stem/Progenitor Cells	5 x 10 ⁵ cells	Cryopreserved
BM34C-4	CD34 ⁺ Stem/Progenitor Cells	2 x 10 ⁶ cells	Cryopreserved
BM34	CD34 ⁺ Stem/Progenitor Cells	Custom	Custom
BM133C-1	CD133 ⁺ Stem/Progenitor Cells	1 x 10 ⁵ cells	Cryopreserved
BM133C-2	CD133 ⁺ Stem/Progenitor Cells	5 x 10 ⁵ cells	Cryopreserved
BM133	CD133 ⁺ Stem/Progenitor Cells	Custom	Custom

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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, HTLVI/II, Syphilis, WNV, and Chagas.

Ordering and Shipping

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

HemaCare can ship per your requested specifications.

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- techserv@bio-rev.com

Connect With Us

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- Bio-REV

Catalog #	Product Description	Average Size	Format
CB008F-0	Unprocessed Cord Blood	0.8 - <1 x 10 ⁹ cells	Fresh
CB008F-1	Unprocessed Cord Blood	>1 x 10 ⁹ cells	Fresh
CB008	Unprocessed Cord Blood	Custom	Custom
CB71C-1	Nucleated Red Blood Cells (nRBC)	10 x 10 ⁶ cells	Cryopreserved
CB71C-2	Nucleated Red Blood Cells (nRBC)	25 x 10 ⁶ cells	Cryopreserved
CB71	Nucleated Red Blood Cells (nRBC)	Custom	Custom
CB006C-1	Plasma	10 mL	Cryopreserved
CB006C-2	Plasma	25 mL	Cryopreserved
CB006C-3	Plasma	50 mL	Cryopreserved
CB006	Plasma	Custom	Custom

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Cord Blood

Catalog #	Product Description	Average Size	Format
CB009C-1	Mononuclear Cells	25 x 10 ⁶ cells	Cryopreserved
CB009C-2	Mononuclear Cells	100 x 10 ⁶ cells	Cryopreserved
CB009C-3	Mononuclear Cells	200 x 10 ⁶ cells	Cryopreserved
CB009	Mononuclear Cells	Custom	Custom
CB34DC-1	CD34 Depleted Mononuclear Cells	200 x 10 ⁶ cells	Cryopreserved
CB34	CD34 Depleted Mononuclear Cells	Custom	Custom
CB133DC-1	CD133 Depleted Mononuclear Cells	200 x 10 ⁶ cells	Cryopreserved
CB133	CD133 Depleted Mononuclear Cells	Custom	Custom
CB03C-1	CD3 ⁺ Pan T Cells	10 x 10 ⁶ cells	Cryopreserved
CB03NC-1	CD3 ⁺ Pan T Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
CB03	CD3 ⁺ Pan T Cells	Custom	Custom
CB04C-1	CD4 ⁺ Helper T Cells	10 x 10 ⁶ cells	Cryopreserved
CB04NC-1	CD4 ⁺ Helper T Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
CB04	CD4 ⁺ Helper T Cells	Custom	Custom
CB08C-1	CD8 ⁺ Cytotoxic T Cells	10 x 10 ⁶ cells	Cryopreserved
CB08NC-1	CD8 ⁺ Cytotoxic T Cells, Negative Selection	10 x 10 ⁶ cells	Cryopreserved
CB08	CD8 ⁺ Cytotoxic T Cells	Custom	Custom
CB14C-1	CD14 ⁺ Monocytes	5 x 10 ⁶ cells	Cryopreserved
CB14C-2	CD14 ⁺ Monocytes	10 x 10 ⁶ cells	Cryopreserved
CB14C-3	CD14 ⁺ Monocytes	25 x 10 ⁶ cells	Cryopreserved
CB14	CD14 ⁺ Monocytes	Custom	Custom
CB19C-1	CD19 ⁺ B Cells	1 x 10 ⁶ cells	Cryopreserved
CB19C-2	CD19 ⁺ B Cells	5 x 10 ⁶ cells	Cryopreserved
CB19	CD19 ⁺ B Cells	Custom	Custom
CB34C-1	CD34 ⁺ Stem/Progenitor Cells	1 x 10 ⁵ cells	Cryopreserved
CB34C-2	CD34 ⁺ Stem/Progenitor Cells	5 x 10 ⁵ cells	Cryopreserved
CB34C-3	CD34 ⁺ Stem/Progenitor Cells	1 x 10 ⁶ cells	Cryopreserved
CB34	CD34 ⁺ Stem/Progenitor Cells	Custom	Custom
CB56C-1	CD56 ⁺ NK Cells	1 x 10 ⁶ cells	Cryopreserved
CB56	CD56 ⁺ NK Cells	Custom	Custom
CB133C-1	CD133 ⁺ Stem/Progenitor Cells	1 x 10 ⁵ cells	Cryopreserved
CB133C-2	CD133 ⁺ Stem/Progenitor Cells	5 x 10 ⁵ cells	Cryopreserved
CB133	CD133 ⁺ Stem/Progenitor Cells	Custom	Custom
CB011	Neutrophils	Custom	Custom
DC-100-CRY	Dendritic Cells by MatTek	2.5 x 10 ⁶ cells	Cryopreserved
DC-100-RT	Dendritic Cells by MatTek	2.5 x 10 ⁶ cells	Fresh
DCP100-CRY	Plasmacytoid Dendritic Cells by MatTek	2.5 x 10 ⁶ cells	Cryopreserved
DCP100-RT	Plasmacytoid Dendritic Cells by MatTek	2.5 x 10 ⁶ cells	Fresh
TC-100-CRY	T-Cells by MatTek	2.5 x 10 ⁶ cells	Cryopreserved
TC-100-RT	T-Cells by MatTek	2.5 x 10 ⁶ cells	Fresh

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



HemaCare
BioResearch Products & Services
Your Research • Our Cells • Your Way

Disease State Primary Cells and Biological Components

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

Available Disease State Samples

Cancer

Acute Myeloid Leukemia [-AML]
Breast Cancer [-BC]
Chronic Lymphocytic Leukemia [-CLL]
Colorectal Cancer [-CRC]
Gastric Cancer [-GC]
Lung Cancer [-LC]
Multiple Myeloma [-MM]
Non-Hodgkin's Lymphoma [-NHL]
Prostate Cancer [-PC]

Infectious Disease

Hepatitis B Virus [-HBV]
Hepatitis C Virus [-HCV]
Herpes Simplex Virus 1 [-HSV1]
Herpes Simplex Virus 2 [-HSV2]
Human Immunodeficiency Virus [-HIV]
Syphilis [-SYP]

Autoimmune Disease

Diabetes Mellitus Type 2 [-DM2]
Rheumatoid Arthritis [-RA]
Systemic Lupus Erythematosus [-SLE]

Inflammatory Bowel Disease

Crohn's Disease [-CD]

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

Place an Order

+65 6273 3022
sales@bio-rev.com
+65 6273 3020
www.bio-rev.com

Technical Support

techserv@bio-rev.com

Connect With Us

Bio-REV Pte Ltd
@BioREV
Bio-REV

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, HTLV-I/II, HIV-1/HCV/HBV Nucleic Acid, WNV Nucleic Acid, Trypanasoma cruzi, and Syphilis the day of collection. Results are available a few days following shipment.

Cryopreserved

- 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.



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Disease State Primary Cells and Biological Components

Peripheral Blood Derived

Catalog #	Product Description	Average Size	Format
PB000-____	Whole Blood	Custom	Custom
PB006C-1-____ PB006-____	Plasma - Specimen Tube Plasma - Specimen Tube	2 mL Custom	Cryopreserved Custom
PB007C-1-____ PB007-____	Serum - Specimen Tube Serum - Specimen Tube	2 mL Custom	Cryopreserved Custom
PB009C-1-____ PB009-____	Mononuclear Cells Mononuclear Cells	10 x 10 ⁶ cells Custom	Cryopreserved Custom

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



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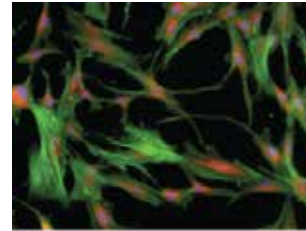
Preservation Media

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.

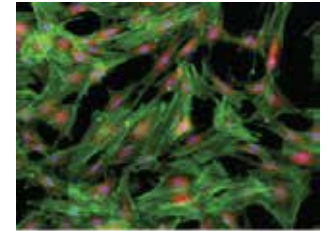


CryoStor®

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

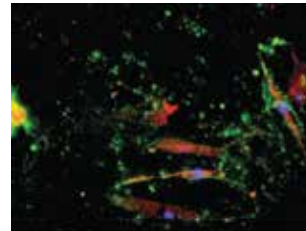


Cryopreserved in serum-free CryoStor

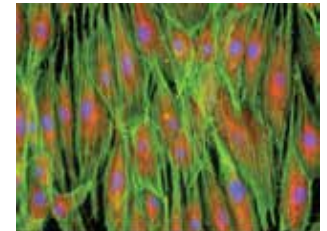


HypoThermosol®

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



Biopreserved in Hema-Brew Media



Biopreserved in HypoThermosol

Catalog #	Product Description	Average Size
202102	CryoStor CS2 - <i>Preformulated with 2% DMSO</i>	100 mL bottle
205102	CryoStor CS5 - <i>Preformulated with 5% DMSO</i>	100 mL bottle
210102	CryoStor CS10 - <i>Preformulated with 10% DMSO</i>	100 mL bottle
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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- sales@bio-rev.com
- +65 6273 3020
- www.bio-rev.com

Technical Support

- techserv@bio-rev.com

Connect With Us

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