

Primary Cells

Human Cancer - Peripheral Blood Leukopak, Fresh



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Product Description

Cancer-sourced Leukopaks are an enriched leukapheresis product consisting of a large number of single-donor mononuclear cells (MNCs) collected from peripheral blood of a donor who has been diagnosed with cancer. Leukapheresis is performed on donors diagnosed with cancer using Institutional Review Board (IRB)-approved consent forms and protocols.

Donor Status: Cancer

Characterization Criteria: Primary cancer type, stage, donor ID, cell processing date, age, sex, ethnicity, weight, height, smoking status, blood type, anticoagulant, current treatments, other information

Format: Product is drawn directly into a sample collection bag containing anticoagulant and transferred into a bottle, bag, or conical tube.

Anticoagulant: Acid-citrate-dextrose solution A (ACDA)

For donor details, refer to the lot-specific Certificate of Analysis.

Ordering Information

CANCER TYPE	CATALOG #
Bladder Cancer	200-0290
Breast Cancer	200-0291
Cervical Cancer	200-0292
Colorectal Cancer	200-0293
Endometrial Cancer	200-0294
Esophageal Cancer	200-0295
Gastric Cancer	200-0296
Head and Neck Cancer	200-0297
Kidney Cancer	200-0298
Liver Cancer	200-0299
Lung Cancer	200-0300
Melanoma	200-0301
Ovarian Cancer	200-0302
Pancreatic Cancer	200-0303
Prostate Cancer	200-0304
Solid Tumor Cancer	200-0402

Stability and Storage

Product is shipped in a refrigerated temperature-controlled box and should be used or processed immediately upon receipt.

Precautions

Donor Screening: Donors are screened for HIV-1, HIV-2, hepatitis B, and hepatitis C.

Donors have been tested and found to be negative for HIV-1, HIV-2, hepatitis B, and hepatitis C prior to donation. A negative result indicates that donor viral testing was found to be negative upon initial donor screening. The date of most recent viral testing is indicated on the Certificate of Analysis.

As testing cannot completely guarantee that the donor was virus-free, THIS PRODUCT SHOULD BE TREATED AS POTENTIALLY INFECTIOUS and only be used following appropriate handling precautions such as those described in biological safety level 2. When handling this product, do not use sharps such as needles and syringes.

STEMCELL cannot guarantee the biological function or any other properties associated with performance of cells in a researcher's individual assay or culture systems. STEMCELL assures the cells will meet the specifications only when assessed, before washing, by our test methods.

FOR IN VITRO RESEARCH USE ONLY. NOT APPROVED FOR DIAGNOSTIC, THERAPEUTIC, OR CLINICAL APPLICATIONS. NOT APPROVED FOR HUMAN OR VETERINARY USE IN VIVO.

Directions for Use

IMPORTANT: To determine the number of cells provided, a cell count must be done upon receipt and before any processing steps (e.g. washing). Cell loss is expected during wash steps and may be up to 30%. Use sterile technique when processing cells.

Remove a 20 μ L aliquot of cells for counting. Appropriately dilute in Trypan Blue (to assess viability) or 3% Acetic Acid with Methylene Blue (to assess nucleated cells). For most Leukopak samples, a dilution of 1 in 100 is sufficient. Adjust the dilution if there are more than 100 cells per square of the hemocytometer. See Tips section for more details on performing cell counts with a hemocytometer.

Platelet and red blood cell (RBC) levels will vary between samples, and further processing may be required prior to use in downstream applications (e.g. slow spins to remove platelets, RBC lysis, or density gradient separation). See Notes and Tips section for an optional RBC Lysis and Platelet Removal protocol (after diluting and centrifuging the sample).

NOTE: SepMate™ tubes are not intended for use with leukapheresis samples.

SepMate™ (IVD) is available as an in vitro diagnostic (IVD) device in certain regions with an intended use of isolating mononuclear cells (MNCs) from whole blood or bone marrow by density gradient centrifugation. SepMate™ is manufactured under a cGMP quality management system compliant with 21 CFR 820. In all other regions, SepMate™ is available for research use only (RUO).

Tips

For a protocol on performing total nucleated cell counts using a hemocytometer, refer to <https://www.stemcell.com/how-to-count-cells-with-a-Hemocytometer.html>.

For a protocol on RBC Lysis and Platelet Removal, refer to "How to Process a Leukopak for Downstream Cell Isolation" (Part II: Prepare Leukopak Contents, Option 2), available at <https://www.stemcell.com/leukopak-processing-protocol.html>.

For information on cell isolation from Leukopaks, refer to www.easyssep.com.

Accessory Products

PRODUCT NAME	CATALOG #
3% Acetic Acid with Methylene Blue	07060
Ammonium Chloride Solution	07800
Hausser Scientific™ Bright-Line Hemocytometer	100-1181
Lymphoprep™	07811
Trypan Blue	07050

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