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Fresh Product

Whole Peripheral Blood Bag Collection

Catalog#	PB2705F	450 mL ACD-A
	PB2706F	500 mL CPD
	PB2707F	500 mL Na Heparin

PRODUCT DESCRIPTION

Human Whole Peripheral Blood (PB) is collected in sterile systems containing either ACD-A, EDTA or CPD anticoagulants according to customer specifications. Whole blood may be collected in vacutainer tubes with custom anticoagulants, syringes or transfer packs to accommodate low volume draws.

Fresh products have a high viability without the detrimental effects of freezing, thawing, and exposure to cryoprotectants.

Cells were obtained using Institutional Review Board (IRB) approved consent forms and protocols.

SAMPLE COLLECTION AND PROCESSING

All samples are collected on-site at our Stem Cell Collection Center.

FORMAT

Fresh whole peripheral blood is shipped at ambient temperature.

Specific containers and media can also be prepared as requested by the customer.

STORAGE

Fresh products should be used or processed immediately upon receipt. The warranty only covers items whose specifications are tested at the time they are received.

CELL COUNTING INSTRUCTIONS

Important: This cell viability/counting step is required to ensure the quantity of cells provided. Be sure to count the cells before washing. Be aware that cell loss is expected and may be up to 30% during wash steps. Recovery rates vary depending on technique.

Materials

- Cleaned hemocytometer
- Trypan Blue

Protocol

1. If removing the cell suspension from the vial in which it was shipped, be sure to rinse the vial to collect all of the cells.
2. Gently mix the cell suspension and measure the volume.
3. Make a 1-in-2 dilution with 20 µL each of well-mixed cell suspension and Trypan Blue.
4. Load one side of the hemocytometer, being careful not to over- or under-fill the chamber.
5. Count viable (clear, round, bright) and non-viable (blue, irregular shape, dull) cells in the four corner squares. Adjust your dilution if there are more than 100 cells/square.
6. Determine the number of total viable cells in the original sample. One square is equal to 100 nL.

   Viability = live cells/all cells
   Cell Concentration = Mean cells/square × Dilution Factor × 104
   Total Cell Count = Cell Concentration × Starting Volume
   Total Viable Cell Count = Total Cell Count × Viability

WARNING

This product contains human tissue or other biological material and MUST be handled at Biosafety Level 2 or higher. All biological products should be treated as potentially infectious or contaminated material, even if infectious disease screening reports are negative. Follow universal precautions and wear appropriate personal protective equipment.

PRODUCT WARRANTY

For our product warranty, please review our Terms and Conditions at cgt.global/terms-and-conditions/.