

## Primary Cells

## Human Whole Cord Blood, Fresh

Catalog #	70503.3	≥ 10 mL
	70503.2	≥ 25 mL
	70503.1	≥ 50 mL
	70503	≥ 75 mL



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## Product Description

Whole cord blood from healthy donors is obtained using consent forms and protocols approved by either the Food and Drug Administration (FDA) or an Institutional Review Board (IRB).

Donor Status:	Normal
Characterization Criteria:	Age, sex, ethnicity, weight, height, smoking status, other information
Format:	Product is drawn directly into a sample collection bag containing anticoagulant.
Anticoagulant:	Citrate phosphate dextrose (CPD)

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

## Stability and Storage

Product is shipped at ambient temperature and should be used or processed immediately upon receipt.

## Precautions

Donor Screening: Testing for HIV-1 and 2, hepatitis B, and hepatitis C is performed on a maternal blood sample and/or on a sample of the donated cord blood.

Fresh cord blood products are shipped with negative test results for HIV-1 and 2 and hepatitis B donor screening. hepatitis C test results are not available at the time of shipment. In the unlikely event that the hepatitis C test result is positive, the customer will be contacted as soon as possible (usually within 24 - 72 hours from the time of shipment).

Donors have been tested and found to be negative for HIV-1 and 2, and hepatitis B prior to donation. Hepatitis C is tested for at time of collection however results are not available at time of purchase. If the hepatitis C test is positive the customer will be contacted. As testing cannot completely guarantee that the donor was virus-free, THIS PRODUCT SHOULD BE TREATED AS POTENTIALLY INFECTIOUS and only 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.

## Handling / 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 techniques when processing cells.

Remove a 20 µL 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 cord blood samples, a dilution of 1 in 10 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.

## Tips

Refer to <http://www.humanimmunologyportal.com/hipprotocols/> for protocols on how to:

- Perform cell counts using a hemocytometer
- Prepare a mononuclear cell fraction using density gradient medium (with or without SepMate™)

Refer to <http://www.stemcell.com/> for protocols on how to:

- Perform ammonium chloride lysis (Document #29621)

## Accessory Products

PRODUCT NAME	CATALOG #
Trypan Blue	07050
3% Acetic Acid with Methylene Blue	07060
Ammonium Chloride Solution	07800
Lymphoprep™	07801
SepMate™-50 (IVD) or	85450
SepMate™-50 (RUO)	86450

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