

Primary Cells

Human Whole Bone Marrow, Fresh



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Catalog #70502.2
#70502.1
#70502

~25 mL Collection
~50 mL Collection
~100 mL Collection

Product Description

Normal human whole bone marrow (BM) is obtained from healthy donors using Institutional Review Board (IRB)-approved consent forms and protocols. BM is collected from a maximum of four sites in the iliac crest (two sites on the right and two sites on the left posterior iliac crest). Approximately 25 mL of BM aspirate is drawn per site, into a 30 cc syringe containing heparin.

NOTE: The volume of the bone marrow sample collected is approximate and can vary between donors depending on the efficiency of the aspiration procedure.

Donor Status:	Normal
Characterization Criteria:	Cell count, viability, donor virus testing, age, sex, ethnicity, weight, height, smoking status, other information
Format:	Fresh bone marrow is collected and transferred into a bottle.
Anticoagulant:	Heparin

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

If the donor has been screened within 90 days of donation the product will be shipped with negative test results from donor screening.

If the donor has not been screened within 90 days of collection, a test sample will be taken at the time of donation and the product will be shipped before the screening results are available. In the unlikely event that a test result is positive, the customer will be contacted as soon as possible (usually within 2 - 4 business days from the time of shipment).

Donors have been tested and found to be negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. 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.

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 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 bone marrow samples, a dilution of 1 in 20 is sufficient. Adjust the dilution if there are more than 100 cells per square of the hemocytometer. See Notes and Tips section for more details on performing cell counts with a hemocytometer.

Notes and 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>.

Accessory Products

PRODUCT NAME	CATALOG #
3% Acetic Acid with Methylene Blue	07060
Ammonium Chloride Solution	07800
Hausser Scientific™ Bright-Line Hemocytometer	100-1181
Lymphoprep™	07801
Trypan Blue	07050

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