Whole Blood Column Elution Buffer

Order no. 130-131-889

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1. Description

This product is for research use only.

Components	**50 mL Whole Blood Column Elution Buffer**
Product format	Whole Blood Column Elution Buffer is supplied as solution containing stabilizer and 0.09% sodium azide.
Storage	Store Whole Blood Column Elution Buffer at +2 to +8 °C. The expiration date is indicated on the box label.

1.1 Background information

Whole Blood Column Elution Buffer has been developed for the positive selection of leukocyte subsets from anticoagulated whole blood, buffy coat, LRSCs, or Leukopak® labeled with StraightFrom® MicroBeads in combination with a MACS® Separator.

1.2 Applications

- Elution of the positive cell fraction from a column after MACS Separation

1.3 Reagent and instrument requirements

- Separation buffer: Prepare a solution containing phosphate-buffered saline (PBS), pH 7.2, 0.5% bovine serum albumin (BSA), and 2 mM EDTA by diluting MACS BSA Stock Solution (# 130-091-376) 1:20 with autoMACS® Rinsing Solution (# 130-091-222). Keep buffer cold (+2 to +8 °C). Alternatively, use autoMACS Running Buffer. Degas buffer before use, as air bubbles could block the column.

  ▲ **Note:** BSA can be replaced by other proteins such as human serum albumin, human serum, or fetal bovine serum (FBS). Buffers or media containing Ca^{2+} or Mg^{2+} are not recommended for use.

- MACS Columns or Column Blocks of choice. Refer to the respective data sheet for more information.
- StraightFrom MicroBeads for magnetic labeling of cells.
- MACS Separator of choice: MidiMACS™ Separator (# 130-042-302), QuadroMACS™ Separator (# 130-091-051), QuadroMACS XL Separator (# 130-136-311), or MultiMACS™ Cell24 Separator Plus (# 130-098-637).
- MACS MultiStand (# 130-042-303) in combination with MidiMACS Separator, QuadroMACS Separator, or QuadroMACS XL Separator.
- Single-Column Adapter for use of Whole Blood Columns with the MultiMACS Cell24 Separator Plus. The Single-Column Adapter is part of the MultiMACS Cell24 Separator Plus package.
- MACS Acrylic Tube Rack (# 130-041-406), MACS 15 mL Tube Rack (# 130-091-052), or MACS XL Tube Rack (# 130-136-312).
- (Optional) Pre-Separation Filters (30 µm) (# 130-041-407) or MACS SmartStrainers (30 µM) (# 130-098-458) to remove cell clumps.
- (Optional) Red Blood Cell Lysis Solution (10×) (# 130-094-183)

2. Protocol

▲ For usage of the Whole Blood Column Elution Buffer, refer to the respective StraightFrom MicroBeads data sheet.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

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