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1. Description

Components 5 × 2 autoMACS® Columns

Storage Store columns dry and protected from light.
The expiration date is indicated on the box label.

1.1 Background information

The autoMACS Columns are specifically designed for use with the autoMACS Pro Separator.

A set of two separation columns is required for operating the autoMACS Pro Separator. Once installed, the autoMACS Columns become part of a closed fluidic system and can be used for up to 14 days.

Column substitutes for long-term storage are provided with the autoMACS Pro Separator Starter Kit.

1.2 Technical specifications

- autoMACS Columns are multiuse columns that can be used for up to 14 days.
▲ **Note:** High use within 14 days may require more frequent replacement. For further information please contact our Technical Support team.
- Column capacity: Up to 2×10^8 magnetically labeled cells from up to 4×10^9 nucleated total cells or from up to 15 mL of whole blood.

1.3 Reagent and instrument requirements

- autoMACS Pro Separator (# 130-092-545)
- autoMACS Running Buffer (# 130-091-221)
- autoMACS Pro Washing Solution (# 130-092-987)
- autoMACS Rinsing Solution (# 130-091-222)

2. Installation of the autoMACS® Columns

▲ Please refer to the autoMACS® Pro Separator user manual for detailed information on using the instrument.

▲ Columns do not have a top or bottom and do not require special orientation in the column holder.

▲ The autoMACS Pro Separator automatically records the date of the column exchange and can display the due date for the next column replacement if the Column exchange program Col_ex has been used for column installation.

1. Open the front door and note the position of the tubing and autoMACS Column slots in the magnet cover (column 1 to the left, column 2 to the right).
2. Ensure that the fluid bottles are filled with solutions.
3. Using the touch screen, select **Option** and **Special** from the **Main** submenu.
4. Select **Col_ex** (column exchange) from the **Detail** panel.
5. Select **Run** to start the **Col_ex** program.
6. Wait until the instrument prompts you to exchange the autoMACS Columns before proceeding.
7. Using both hands take the top and bottom of the column 1 substitute and pull gently but firmly to remove it from its slot.
8. Place a wide mouth bottle under the column substitute. Hold the column substitute in one hand and gently unscrew the bottom column connector counter-clockwise. Unscrew the top column connector while holding the column over the bottle to catch any fluids. Store the column substitute in the autoMACS Pro Separator – Starter Kit box.
9. Insert one end of a fresh column into the bottom column connector and gently screw in the column by turning it clockwise until you feel a resistance. Point the column towards the top of the instrument and screw in the top column connector.
10. Align the column with the top column connector sitting on the guiding of the magnet cover. Press the column into the slot until you feel the guides click. Verify that the column is placed in the center of the magnet cover.
11. Repeat steps 8 through 11 to install the second column.
12. Ensure that the tubes are securely fastened to the columns and that the tubing is neither pinched nor obstructed.
13. Press **Done**.
14. Close the front door. The unit is now ready to perform cell separations.

▲ **Note:** The program will then proceed to wash the columns with autoMACS Running Buffer. Check that the columns are securely fastened to the column connectors and that no buffer is leaking.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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