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1. Description

Components	6×1.5 L autoMACS® Running Buffer
Capacity	For up to 30 autoMACS Programs, corresponds to up to 15 autoMACS Separations per bottle.
Product format	autoMACS Running Buffer (pH 7.2) contains phosphate buffered saline (PBS), bovine serum albumin (BSA), EDTA, and 0.09% azide. This solution is sterile-filtered.
Storage	Store protected from light at 2–8 °C. The expiration date is indicated on the bottle label. After opening the autoMACS Running Buffer should be stored refrigerated and used within 3 days.

1.1 Principle of an autoMACS® Separation

autoMACS® Instruments are designed for automated magnetic sorting of cell samples employing MACS® Technology. Prior to usage the autoMACS Separator or the autoMACS Pro Separator is primed with MACS Separation Buffer (autoMACS Running Buffer). Then, a magnetically labeled cell sample is applied to the instrument and the appropriate cell separation program is chosen. The cell separation process is performed automatically and proceeds as follows. The cell sample is loaded on the autoMACS Separation Column, which is placed in the magnetic field of the autoMACS Magnet. The magnetically labeled cells are retained within the column. The unlabeled cells are eluted as the negative fraction. Then, the magnet is retracted automatically from the column and the magnetically retained cells are eluted as the positively selected cell fraction. Before proceeding to the next cell sample the system is rinsed automatically with the wash program selected. After the last separation of the day autoMACS Instruments must be shut down with a short term or long term storage program. For more information please refer to the respective autoMACS User Manual.

1.2 Applications

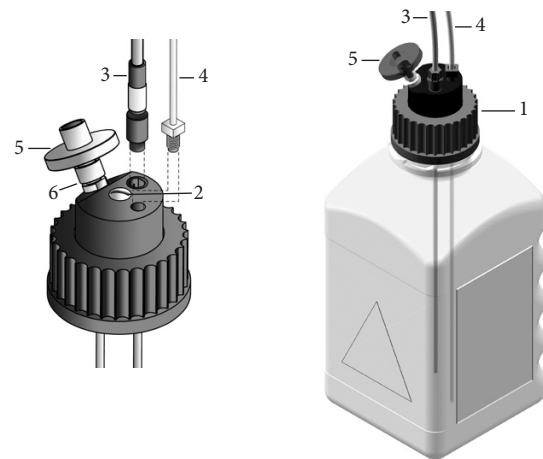
- All autoMACS Pro and autoMACS Programs indicated in tables 1 and 2.
- Manual cell separations using the MiniMACS™, MidiMACS™, OctoMACS™, QuadroMACS™, VarioMACS™, or SuperMACS™ Cell Separation System.
- Sample preparation and washing steps.

2. How to connect

The three different autoMACS Buffers—the autoMACS Running Buffer, the autoMACS Rinsing Solution (for autoMACS) or the autoMACS Pro Washing Solution (for autoMACS Pro), and the storage (cleaning) solution—are directly connected with the autoMACS Separator's or the autoMACS Pro Separator's fluidic system by color-coded bottle closures (1, for more information see also the respective user manual). The screw (2), the fluid sensor cable connector (3), and the tubing connector (4) of the Running Buffer's bottle closure are color-coded blue.

To connect a bottle of autoMACS Running Buffer screw the bottle closure with the blue color-code onto the buffer bottle.

▲ **Note:** The bottle closures are autoclavable. To autoclave unplug the fluid sensor cable (3), and unscrew the tubing connector (4) from the bottle closure. Discard the hydrophobic air filters (5). Take care not to remove the luer-to-thread air filter connector (6) from the bottle closure.



3. Volumes required

The following tables indicate the buffer consumption during the different autoMACS Pro Programs and autoMACS Programs:

Program	Volumes used [mL]		
	Running Buffer	Washing Solution	Storage (Cleaning) Solution
Separation program*	50	–	–
Qrinse	50	–	–
Rinse	50	100	–
Sleep	–	100	50
Store	–	100	100
Safe**	100	100	5

Table 1: autoMACS Pro Programs.

*Note: The autoMACS Pro Program posselwb may require a higher volume of autoMACS Running Buffer since the cell sample is diluted prior to the cell separation process.

**Additionally, 40 mL of MACS Bleach Solution are required.

Program	Volumes used [mL]		
	Running Buffer	Rinsing Solution	Storage (Cleaning) Solution
Separation program	50	–	–
Qrinse	50	–	–
Rinse	50	100	–
Clean	50	100	50
Sleep	–	100	50
Store	–	100	100
Safe*	156	150	100

Table 2: autoMACS Programs.

*Additionally, 40 mL of MACS Bleach Solution are required.

All protocols and data sheets are available at www.miltenyibiotec.com.

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