Miltenyi Biotec

MACSQuant® Tyto™ Running Buffer

100 mL	130-107-206
6× 100 mL	130-107-207

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1. Description

This product is for research use only.

Components	**100 mL MACSQuant® Tyto™ Running Buffer** or **6× 100 mL MACSQuant® Tyto™ Running Buffer**
Capacity	100 mL for up to 10 sorts or 6× 100 mL for 60 sorts with up to 10 mL per sort.
Product format	The filtered (0.22 µm) MACSQuant® Tyto™ Running Buffer (pH 7.4) contains low concentration of salts and stabilizer.
Storage	Store the MACSQuant Tyto Running Buffer protected from light at 2–8 °C. The expiration date is indicated on the bottle label.

1.1 Background information

The MACSQuant Tyto Running Buffer has been developed for the optimal processing of cells in combination with the MACSQuant Tyto Cartridges and the MACSQuant Tyto instrument.

1.2 Reagent and instrument requirements

- MACSQuant Tyto (# 130-103-931)
- MACSQuant Tyto Cartridges (# 130-106-088)
- Pre-Separation Filters (20 µm) (# 130-101-812)
- Washing buffer: Prepare a solution containing phosphate-buffered saline (PBS), pH 7.2, and 0.5% bovine serum albumin (BSA). Pass the buffer through a 0.22 µm filter for sterile filtration. Store buffer at 2–8 °C.

2. Cell preparation

▲ Volumes given below are for one sort using 10 mL of MACSQuant Tyto Running Buffer.

▲ Refer to the MACSQuant Tyto user manual for instructions on how to use the instrument.

1. Stain the cells with the fluorochrome-conjugated antibodies of interest according to the respective antibody protocol.

   ▲ **Note:** If the staining buffer contains EDTA please wash the cells once with washing buffer to remove EDTA.

2. Wash cells by adding washing buffer (10–40 mL) and centrifuge at 300×g for 10 minutes. Aspirate supernatant completely.

   ▲ **Note:** The washing buffer volume is depending on the cell number. Please refer to the respective antibody protocol.

3. Resuspend the cell pellet in MACSQuant Tyto Running Buffer (0.5–10 mL) depending on cell number.
4. Pass cells through a 20 µm nylon mesh (Pre-Separation Filters (20 µm), # 130-101-812) to remove cell clumps which may clog the cartridge. Moisten filter with buffer before use.
5. Add the sample into a MACSQuant Tyto Cartridge. Please refer to the data sheet of the MACSQuant Tyto Cartridges for detailed information.

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

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