

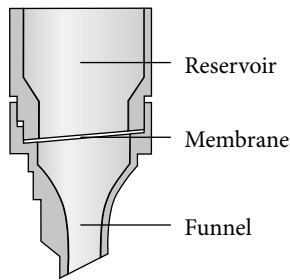
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## 1. Description

**Components** 50 Pre-Separation Filters, 30 µm. For single use only. Sterile packed.

**Storage** Store Pre-Separation Filters dry. The expiration date is indicated on the box label.



### 1.1 Background information

Pre-Separation Filters, 30 µm are designed for the easy removal of cell aggregates or large particles from single-cell suspensions to ensure effective magnetic or fluorescent cell labeling, and thus optimal flow within cell separation columns and flow cytometer. The Pre-Separation Filters fit onto MACS® MS, LS, or LD Columns as well as onto tubes with a capacity of 13–15 mL. One set contains 50 sterile and ready-to-use filters.

### 1.2 Applications

- Filtering of cell suspensions derived from tissues to remove cell aggregates or other large particles.
- Filtering of cell samples to remove cell aggregates or other large particles before magnetic labeling with MACS MicroBeads.
- Filtering of cell samples to remove cell aggregates or other large particles after magnetic labeling before separation over a MACS Column.

### 1.3 Technical specifications

- Mesh size: 30 µm.
- Recommended sample volume: 500 µL–3500 µL.

## 2. Protocol

▲ The membrane of the Pre-Separation Filter is slightly hydrophobic. Moisturize Pre-Separation Filter by vigorously pipetting 500 µL of buffer into the reservoir and discard effluent. Use same buffer as used to resuspend cells.

▲ To avoid drops trapped in funnel of filter, tap rim of filter to elute suspension completely.

### 2.1 Filtration of cell suspensions

1. Place moistened Pre-Separation Filter on a suitable tube.
2. Pipette cell suspension (minimum 500 µL, maximum 3500 µL) into the reservoir of the filter and allow cell suspension to run through.
3. Wash filter with a suitable volume of buffer.

### 2.2 Filtration of cell suspensions prior to separation over a MACS® Column

1. Place moistened Pre-Separation Filter on a prepared MACS® Column.
2. Pipette cell suspension (minimum 500 µL, maximum 3500 µL) into the reservoir of the filter.
  - ▲ **Note:** Resuspend up to 10<sup>8</sup> cells in 500 µl of buffer. For higher cell numbers, scale up buffer volume accordingly.
  - ▲ **Note:** For volumes > 3500 µL, add cell suspension step by step.
3. Allow cell suspension to run through.
4. Wash filter by applying buffer to the reservoir:

MS Column:	3×500 µL
LS Column:	3×3 mL
LD Column:	2×1 mL

▲ **Note:** Perform washing steps by adding buffer aliquots only when the column reservoir is empty.

All protocols and data sheets are available at [www.miltenyibiotec.com](http://www.miltenyibiotec.com).

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