MACS® XL Tube Rack

Order no. 130-136-312

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Description

This product is for research use only.

Components	1× MACS XL Tube Rack
Storage	Store dry at –25 to +60 °C with a relative humidity between 5% and 95%. Do not store in a condensing atmosphere. Protect the rack from mechanical stress, deformation, and scratches. The MACS XL Tube Rack has no expiration date.
Maintenance	The MACS XL Tube Rack is sensitive to alkaline solutions, ammonia gas (and its solutions/amines), and aggressive solvents, such as acetone. Do not autoclave. The MACS XL Tube Rack can be cleaned with a soft cleansing tissue and a mild detergent as well as disinfected using 70% ethanol. Do not drop. Do not use if damaged.

1.1 Important safety notes

Crushing hazard

⚠ CAUTION **Moving parts. Risk of crushing or cutting injuries.**

- Ensure fingers are not placed between moving parts of the MACS XL Tube Rack.

REACH SVHC Information for Product

The MACS XL Tube Rack contains at least one substance that, in accordance with the REACH Regulation, is classified as a Substance of Very High Concern (SVHC) of the Candidate List at a concentration exceeding 0.1% (w/w).
This identification is sufficient to allow safe use of the MACS XL Tube Rack throughout the whole life cycle including service life, disassembly and waste/recycling stage. To support transparency and facilitate access to detailed component information, the corresponding SCIP notification identifier is provided below. Additional information can be obtained via the public ECHA SCIP database.
SCIP ID: 1b6248e2-2d9f-4a32-9395-f15925499cba

1.2 Background information

The MACS Separation system has been developed to separate human and animal cells. It can be used for the separation of plant protoplasts, bacteria, cell organelles, and other bioparticles.
The MACS XL Tube Rack supports this process by enabling manual magnetic cell separation with the QuadroMACS XL Separator. It holds various tube sizes to collect and store the original starting material, as well as the positive and negative fractions.

1.3 Applications

The MACS XL Tube Rack supports manual separation using the QuadroMACS XL Separator.

- In combination with the QuadroMACS XL Separator (# 130-136-311) and XLS Separation Columns (# 130-136-286), up to four simultaneous cell separations can be performed manually.

For details, refer to the MACS XLS Column data sheet.

2. Technical specifications

- Size of the MACS XL Tube Rack:
  128 × 195 × 80 mm (W×D×H)

3. Instructions for use

Manual separation using the QuadroMACS XL Separator

The MACS XL Tube Rack can be used with the QuadroMACS XL Separator using MACS XLS Columns for manual cell separation.

▲ For details on magnetic separation, refer to the data sheets of used products.

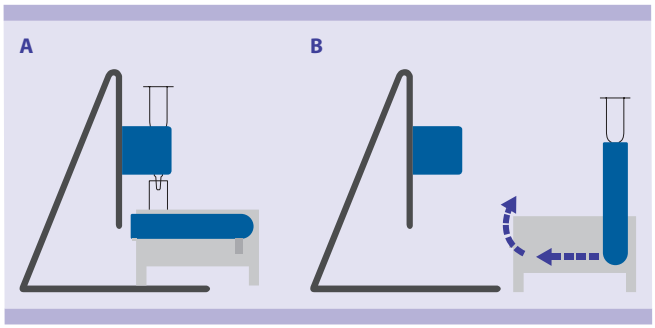


Figure 1: Setup of the QuadroMACS XL Separator including the MACS XL Tube Rack (A). For elution, position the MACS XL Tube Rack outside the MACS MultiStand. Fold the column holder upward to hold the column (B).

1. Place a 50 mL collection tube in row A of the MACS XL Tube Rack.
2. Place the MACS XL Tube Rack beneath the MACS MultiStand to ensure precise alignment with the XLS Column (**see Figure 1 A**).

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3. Proceed with the cell separation according to the respective data sheet.
4. For elution, carefully remove the MACS XL Tube Rack from the MACS MultiStand.
5. Place a new collection tube in row C of the MACS XL Tube Rack.
6. Lift the column holder of the MACS XL Tube Rack into the upright orientation and ensure it securely locks into place.

   ▲ **Note:** Ensure not to move the column when taking out the rack from the MACS MultiStand.
7. Remove the column from the QuadroMACS XL Separator and place it on the column holder of the MACS XL Tube Rack (see **Figure 1 B**).
8. Pipette the appropriate amount of buffer onto the column according to the respective data sheet. Immediately flush out the magnetically labeled cells by firmly pushing the plunger into the column.

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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