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1. Description

This product is for research use only.

Components	25 M Tubes, sterile and single packed
	or
	100 M Tubes, sterile packed as 4×25 tubes.
Storage	Store tubes dry and protected from light at room temperature (19–25 °C). The expiration date is indicated on the box label.
	Do not use after this date.

1.1 Background information

The orange-colored gentleMACS[™] M Tubes are designed for automated homogenization using the gentleMACS Dissociators. M Tubes are used for very efficient homogenization of tissues and cells to isolate subcellular material, such as RNA, DNA, and proteins or pathogens. The homogenization procedure is carried out in a closed system, thus avoiding cross-contamination and facilitating sterile handling.

The cap of the M Tube bears a rotor and a stator with a septumsealed opening in the center. An appropriate buffer is pipetted into the opened M Tube and the sample material is added. The tube is tightly closed with the cap. The tube is attached upside down to the sleeves of the gentleMACS Dissociators. It has to be ensured that the sample material is located in the area of the rotor/stator. The homogenization process is started by running an appropriate gentleMACS Program. After processing, the M Tube is detached from the gentleMACS Dissociators and the homogenized sample is removed from the M Tube.

1.2 Technical specifications

- Sample sizes
 - 500 µL maximal 10 mL total volume
 - 20-4000 mg of tissue

▲ Note: The tubes are suitable for a broad range of tissues, for example, spleen, liver, or brain. However, very hard material, such as bone, may damage the tubes.

Dimensions

-309.

- Length: 87 mm
- Diameter: 30 mm
- Recommended working temperature is between 4 °C and 40 °C.

gentleMACS™ M Tubes

25 M Tubes 100 M Tubes

130-093-236 130-096-335

- Maximal centrifugal acceleration Relative centrifugal force (RCF) = 3000×g
- The tubes are for single use only.
- To close the M Tubes, turn the cap clockwise beyond the first resistance.

1.3 Reagent and instrument requirements

- gentleMACS Dissociator (# 130-093-235), gentleMACS Octo Dissociator (# 130-095-937), or gentleMACS Octo Dissociator with Heaters (# 130-096-427)
- For removal of the homogenized sample from the closed M Tubes, special pipette tips of extended length are required, e.g., ART^{*} 1000 REACH[™] pipette tips (Molecular BioProducts, Inc.).

▲ Note: Regular 1000 µL pipette tips are not suitable for pipetting via the septum. Volumes of up to 200 µL can be added via the septum by using regular pipette tips.

 (Optional) μMACS[™] mRNA Starting Kit (# 130-075-202), μMACS One-step cDNA Starting Kit (# 130-091-989), μMACS One-step cDNA Labeling Starting Kit (# 130-092-521), or μMACS One-step T7 Template Starting Kit (# 130-092-943).

1.4 Applications

Usually, M Tubes are designed for the homogenization of tissues or cells to isolate subcellular material, such as RNA, DNA, and proteins or pathogens.

For further details and more applications, please refer to www.miltenyibiotec.com. The gentleMACS Protocols are also online available at www.miltenyibiotec.com/protocols.

Refer to www.miltenyibiotec.com for all data sheets and protocols.

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