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### 1. Description

**This product is for research use only.**

**Components** 25 C Tubes with Luer-Lock, single packed, sterile, <0.01 EU/mL endotoxin, RNase-/DNase-free.

**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 purple-colored gentleMACS™ C Tubes with Luer-Lock are exclusively designed for automated dissociation using the gentleMACS Dissociators. C Tubes with Luer-Lock are used for very gentle and efficient dissociation of tissues to obtain single-cell suspensions.

The purple-colored cap of the tubes bears a specially designed stator and a rotor with a septum-sealed opening in the center while the cap of the Luer-Lock connection ensures a closed system. Remove the purple-colored cap, add the sample material and medium or buffer in the C Tubes with Luer-Lock, and tightly close both caps of the tube. Attache the tube upside down to the sleeve of the gentleMACS Dissociators. It has to be ensured that the sample material is located in the area of the rotor/stator. The dissociation process is started by running an appropriate gentleMACS Program. After processing, detach the C Tube with Luer-Lock and remove the dissociated material from the tube.

#### 1.2 Technical specifications

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

▲ **Note:** The maximal amount of tissue depends on the consistency of the tissue as well as on the respective gentleMACS Protocol.

▲ **Note:** Dependent on the consistency of the tissue it might be recommended to cut the sample into smaller pieces before processing on the gentleMACS Dissociators.

▲ **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
  - Length: 92.5 mm
  - Diameter: 30 mm
- Recommended working temperature is between 4 °C and 40 °C.

- Maximal centrifugal acceleration  
Relative centrifugal force (RCF) = 3000×g
- The tubes are for single use only.
- Turn the purple-colored cap clockwise beyond the first resistance to close the tube. Ensure that also the cap of the Luer-Lock connection is tightly closed.

#### 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 dissociated material from the closed C Tubes, special pipette tips of extended length are required, e.g., ART® 1000 REACH™ pipet 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) MACS® Tissue Dissociation Kits
- (Optional) Pre-Separation Filters or MACS SmartStrainers to remove cell clumps.
- (Optional) MACS Cell Separation Reagents
- (Optional) MACS Antibodies for cell analysis

#### 1.4 Applications

Usually, C Tubes with Luer-Lock are designed for the dissociation of tissues to obtain single-cell suspensions. They can be easily connected to any tubing, device, or instrument containing a male Luer-Lock connector by insertion of the female Luer-Lock connector present on the tube.

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

Refer to [www.miltenyibiotec.com](http://www.miltenyibiotec.com) for all data sheets and protocols.

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