

C Tubes (25 tubes)
C Tubes (100 tubes)

130-093-237
130-096-334

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1. Description

Components	C Tubes (25 tubes), sterile and single packed or C Tubes (100 tubes), sterile packed as 4x25 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 purple-colored gentleMACS™ C Tubes are exclusively designed for automated homogenization using the gentleMACS Dissociator. C Tubes are used for very gentle and efficient dissociation of tissues to obtain single-cell suspensions. The cap of the C Tubes bears a specially designed stator and a rotor with a septum-sealed opening in the center. The sample material and medium or buffer is placed in the opened C Tubes. The tubes are tightly closed with the cap. Solutions can be added to the closed tube via the septum. The tube is attached upside down to the sleeve of the gentleMACS Dissociator. 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, the C Tube is detached and the dissociated material is removed from the C Tube. For further details, please refer to the gentleMACS Dissociator user manual and gentleMACS Protocols.

1.2 Technical specifications

- Sample sizes
 - 300 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 Dissociator.
- ▲ **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: 87 mm
 - Diameter: 30 mm
- Recommended working temperature is between 4 °C and 40 °C.
- Maximal centrifugal acceleration
Relative centrifugal force (RCF) = 10,000×g
- The tubes are for single use only.
- To close the C Tubes, turn the cap clockwise beyond the first resistance.

1.3 Reagent and instrument requirements

- gentleMACS Dissociator (# 130-093-235) or gentleMACS Octo Dissociator (# 130-095-937)
- 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, 30 µm (# 130-041-407) or Pre-Separation Filters, 70 µm (# 130-095-823) to remove cell clumps.
- (Optional) MACS Cell Separation Reagents
- (Optional) MACS Antibodies for cell analysis

1.4 Applications

Usually, C Tubes are designed for the dissociation of tissues to obtain single-cell suspensions.

Examples are

- dissociation of mouse spleen or lung prior to cell isolation with MACS Cell Separation Reagents,
- dissociation of mouse liver, for example, for subsequent isolation of liver sinusoidal endothelial cells using CD146 (LSEC) MicroBeads, mouse (# 130-092-007),
- dissociation of mouse brain in combination with MACS Neural Tissue Dissociation Kits, or
- dissociation of human tumor tissues or implanted mouse tumor tissues for the preparation of tumor-infiltrating lymphocytes and tumor cells.

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

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

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