Miltenyi Biotec

gentleMACS® Octo Coolers

Order no. 130-130-533

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1. Description

This product is for research use only.

Components 4× gentleMACS Octo Coolers

Storage Store at room temperature (+19 to +25 °C).

Freeze gentleMACS Octo Coolers in upright position at –20 °C for at least 10 hours before use.

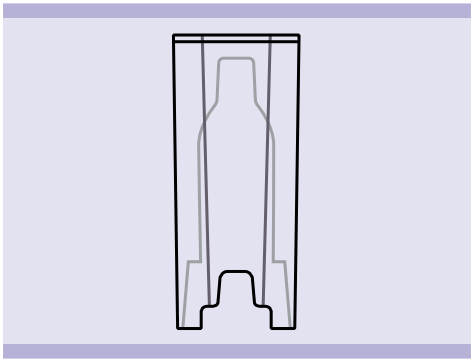


Figure 1: Upright positon of gentleMACS Octo Cooler.

1.1 Background information

The gentleMACS Octo Cooler is intended to be used to keep samples cold during their preparation on the gentleMACS Octo Dissociators. All individual eight positions of a gentleMACS Octo Dissociator can be equipped with gentleMACS Octo Coolers at the same time.

The gentleMACS Octo Cooler is designed to be used in combination with all types of gentleMACS Tubes or gentleMACS Perfusers. The frozen gentleMACS Octo Cooler can be placed over already installed gentleMACS Tubes and Perfusers.

The gentleMACS Octo Cooler must be frozen in an upright position (refer to figure 1) at –20 °C for at least 10 hours before use. The temperature of the liquids inside the gentleMACS Tubes is maintained between +2 to +8 °C for 1 hour (at max. ambient temperature of +35 °C) without any risk of the liquid freezing in the gentleMACS Tube.

After use, the gentleMACS Octo Cooler is detached from the gentleMACS Instrument without removing the tube and can be re-frozen at –20 °C.

1.2 Technical specifications

- Dimensions
  - Length: 122.1 mm
  - Diameter: 57.9 mm
- Weight: 167 g
- Recommended working temperature is between +10 °C and +35 °C.

1.3 Reagent and instrument requirements

- gentleMACS Octo Dissociator with Heaters
- gentleMACS C Tubes (# 130-093-237), M Tubes (# 130-093-236), or M Tubes with Strainer (# 130-094-392)
- (Optional) Nuclei Extraction Buffer (# 130-128-024) and Anti-Nucleus MicroBeads (# 130-132-997)

1.4 Applications

The gentleMACS Octo Cooler is an accessory for the gentleMACS Octo Dissociators and allows samples to be kept at +2 to +8 °C during cold dissociation or homogenization. Tissue samples are processed on a gentleMACS Octo Dissociator, e.g., to obtain single cell suspensions or for the extraction of nuclei or other biomolecules such as mRNA, total RNA, or proteins.

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

2. Instructions for use

- Before putting the gentleMACS Octo Cooler in the freezer, shake it gently and wipe off any condensate on the surface with a soft cloth.
- Store and freeze in an **upright** position as shown in figure 1.
- Freeze the gentleMACS Octo Cooler in an upright position at –20 °C for at least 10 hours. Do not freeze the gentleMACS Octo Cooler at temperatures below –20 °C.
- The frozen gentleMACS Octo Cooler can be placed over already installed gentleMACS Tubes or Perfusers.
- In case of a short gentleMACS program, e.g., 4C_nuclei_1, the gentleMACS Octo Cooler can be used multiple times (up to five times) before it is placed back in the freezer.
- The visible, non-soluble particles in the cooling liquid are present intentionally and do not affect use.
- Remove the gentleMACS Octo Cooler from the gentleMACS Dissociator directly after completion of the run.

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