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## 1. Description

<b>Components</b>	100 mL MACS® Tissue Storage Solution
<b>Sterility</b>	Sterile filtered.
<b>Storage</b>	Store protected from light at 2–8 °C. Do not freeze. The expiration date is indicated on the label.

### 1.1 Background information

The storage of organs or tissue samples may be required if material has to be collected from multiple origins, at different time points, or if it cannot be directly processed. During this storage period necrosis and apoptosis must be avoided and the activation and pluripotency status of cells has to be preserved. The MACS® Tissue Storage Solution has been developed to allow an optimized storage of fresh organ and tissue samples for at least 48 hours without showing background effects like cell activation or apoptosis induction. It has been tested and validated on a variety of human and murine tissues including tumors, skin, heart, spleen, brain, and skeletal muscle.

### 1.2 Applications

- Storage of fresh organ and tissue samples
- Shipping of fresh organ and tissue samples

## 2. Protocol

### 2.1 Preparation

- ▲ The MACS Tissue Storage Solution is formulated without antibiotic or antifungal components. If required, supplement with these ingredients at standard cell culture concentrations prior to use.
- ▲ All procedures should be carried out using sterile techniques in a biosafety cabinet.
- ▲ Pre-chill MACS Tissue Storage Solution to 2–8 °C before use.

### 2.2 Instructions for use

1. Transfer sample directly into the pre-chilled MACS Tissue Storage Solution (2–8 °C). If the sample has already been placed in other buffers or media, replace the complete liquid with the pre-chilled MACS Tissue Storage Solution. The sample must be completely covered with the MACS Tissue Storage Solution.
2. (Optional) For shipping purpose, transfer sample into the MACS Tissue Storage Solution in a closable tube. Avoid air bubbles to prevent air contact for prolonged time periods.
3. Store or ship sample at 2–8 °C.
4. At the end of storage, remove sample from the MACS Tissue Storage Solution and process directly with downstream application, e.g., dissociation into single-cell suspensions by using a gentleMACS Dissociator and a MACS Dissociation Kit, e.g., gentleMACS Octo Dissociator with Heaters (# 130-096-427) and Tumor Dissociation Kit, mouse (# 130-096-730).

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