Miltenyi Biotec

MACSwell™ 24 Imaging Plates

Order no. 130-124-677

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1. Description

This product is for research use only.

Components 8 pieces, sterile and single-packed MACSwell 24 Imaging Plates.

Storage Store MACSwell 24 Imaging Plates dry and protected from light at +19 to +25 °C. The expiration date is indicated on the box label. Do not use after this date.

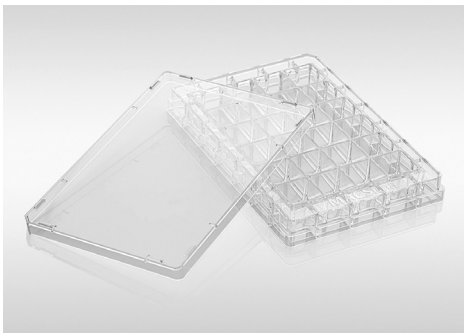


Figure 1: MACSwell 24 Imaging Plate.

1.1 Important safety information

⚠ CAUTION **Burn due to contact with material at a high temperature.**

Disposables could overheat if handled incorrectly. Contact with overheated disposables could result in moderate burns. Overheating can lead to disposables melting and samples becoming unusable.

- Avoid using dark pens to label the used disposables.
- Avoid using dark or flammable mounting media and any light absorbing materials.
- Only use MACSwell Sample Carriers and MACSima Buffers for processing samples with the instrument.

1.2 Background information

MACSwell 24 Imaging Plates are designed for the use with the MACSima Imaging System. The MACSima Imaging System is a fully automated instrument capable of staining hundreds of markers on one sample using the MACSima Imaging Cyclic Staining (MICS) technology. Adherent cells can be cultured and fixed in the plates, which are then inserted into the instrument for high-plexity imaging. The coverglass bottom of MACSwell 24 Imaging Plates is only 170 µm thick, thus enabling imaging with high resolution.

1.3 Technical specifications

- For single use only
- For professional laboratory use only
- Frame material: cyclo olefin polymer (COP), not compatible with acetone
- Glass bottom with 170 µm thickness
- Recommended working temperature betweeen +4 °C and +40 °C
- Size: 127.24 mm × 85.5 mm × 15 mm (length × width × height)
- 24 wells with 224 mm² per well
- Maximum filling volume: 3.5 mL
- Working volume (staining): 250 µL

1.4 Reagent and instrument requirements

- MACSima Imaging System (# 130-121-164)
- MACSima Running Buffer (# 130-121-565)

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2. Use of the MACSwell 24 Imaging Plates

▲ Please refer to the MACSima Imaging System user manual for detailed information on using the instrument.

▲ For cell culture experiments prior to microscopy, all steps should be performed under sterile conditions.

▲ Do not use acetone fixation in the MACSwell 24 Imaging Plates.

2.1 Sample preparation

1. Seed cells in a MACSwell 24 Imaging Plate.

   ▲ **Note:** MACSwell 24 Imaging Plate is not coated. If a coated plate is needed, perform a coating step before starting.

2. Place the MACSwell 24 Imaging Plate in the incubator and let cells grow according to the experimental set-up.

3. Once the cells are ready to be analyzed, proceed with fixing the cells directly in the plate.

   ▲ **Note:** An acetone fixation is not possible in MACSwell 24 Imaging Plates.

4. After fixation, perform multiple washing steps to remove all residual fixative agent.

5. In the last washing step, add 475 µL MACSima Running Buffer to the sample and remove the lid.

6. Proceed with loading the now prepared MACSwell 24 Imaging Plate into the MACSima Imaging System (2.2).

2.2 Loading the MACSwell 24 Imaging Plate into the MACSima Imaging System

▲ For more information please refer to the MACSima Imaging System manual.

1. Start the MACSima Imaging System and software.

2. Follow the instructions of the instrument. When the software asks you to scan the barcode: Scan the 2D barcode on the MACSwell 24 Imaging Plate with the barcode scanner of the MACSima Imaging System.

   ▲ **Note:** The barcode can be read even if still in primary packaging.

3. When the MACSima Imaging System door is open, place the MACSwell 24 Imaging Plate into the MACSima Imaging System.

   ▲ **Note:** Make sure to always remove the lid before loading the MACSwell 24 Imaging Plate into the MACSima Imaging System.

   ▲ **Note:** Be aware of the orientation of the MACSwell Imaging Plate in order to select the correct wells for the experiment. The MACSima Imaging System assumes the top left well to be "A1".

4. Follow the instructions of the instrument.

5. After the MICS experiment has finished, the MACSwell 24 Imaging Plate can be removed from the instrument. Follow the instructions of the instrument. Store or discard the MACSwell 24 Imaging Plate.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

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