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1. Description

This product is for research use only.

Components 5× MACSwell Deepwell Plates
7× MACSwell Sealing Foils

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

1.1 Background information

MACSwell Deepwell 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 MICS (MACSima Imaging Cyclic Staining) technology. Antibody panels can be manually prepared by pipetting the antibodies into the MACSwell Deepwell Plates. MACSwell Deepwell Plates can only be sealed with the MACSwell Sealing Foils in order to perform a MICS experiment in the MACSima Imaging System. For more information, please refer to the data sheet of the MACSwell Sealing Foils.

1.2 Technical specification

- For single use only.
- For professional laboratory use only.
- Size of MACSwell Deepwell Plates:
128 mm × 86 mm × 27 mm (length × width × height).
- 96 wells.
- Maximum filling volume per well: 1.1 mL.

1.3 Reagent and instrument requirements

- MACSima Imaging System (# 130-121-164)
- MACSima Running Buffer (# 130-121-565)
- MACSwell One Imaging Frames (# 130-124-673), MACSwell Two Imaging Frames (# 130-124-675), MACSwell Four Imaging Frames (# 130-124-676), or MACSwell 24 Imaging Plates (# 130-124-677)
- (Optional) MACSwell Sealing Foils (# 130-126-866)

2. Use of the MACSwell Deepwell Plates

2.1 Preparation of the MACSwell Deepwell Plates

▲ Plan the experiment beforehand following the instructions of the MACSima Imaging System.

1. Dilute the antibody of interest to the recommended concentration using MACSima Running Buffer. The total volume needed in an experiment depends on the sample carrier and the amount of wells in use (please refer to the respective data sheet):

Staining volume	Sample carrier		
	MACSwell One	MACSwell Two	MACSwell Four or MACSwell 24
300 µL	-	-	1 well
550 µL	-	1 well	2 wells
800 µL	-	-	3 wells
1050 µL	1 well	2 wells	4 wells

▲ **Note:** The staining volume in this table considers an extra 50 µL of residual volume.

▲ **Note:** The maximum filling volume per well of a sealed MACSwell Deepwell Plate is 1050 µL. If the required staining volume exceeds 1050 µL, the number of wells in use of the MACSwell Deepwell Plate has to be adjusted.

2. Seal the MACSwell Deepwell Plate with a MACSwell Sealing Foil. For this, carefully detach the protection film of the adhesive side holding the foil at the protected margin. Accurately place the foil above the plate and attach it to the surface of the plate. Make sure all wells are covered.

▲ **Note:** MACSwell Deepwell Plates can only be sealed with MACSwell Sealing Foils due to requirements of the MACSima Imaging System.

2.2 Loading the MACSwell Deepwell Plates into the MACSima Imaging System

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

1. Start the MACSima Imaging System and software.
2. Refer to the user manual and follow the instructions of the instrument.
3. Load the MACSwell Deepwell Plate sealed with a MACSwell Sealing Foil into the MACSima Imaging System when the door is open.

▲ **Note:** Be sure to load the plate in the correct orientation with well A1 in the upper left corner. Positions of sample and reagent plate must correspond to the positions specified in the software during experimental set-up.

4. Refer to the user manual and follow the instructions of the instrument.
5. After the MICS experiment has finished, the MACSwell Deepwell Plate can be removed from the instrument. Follow the instructions of the instrument. Discard the MACSwell Deepwell 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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