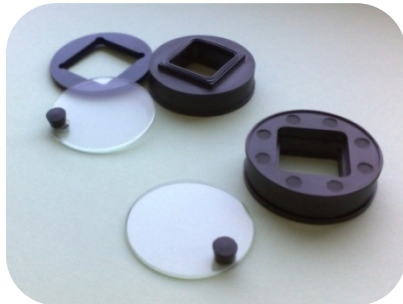


CYTOOchambers™

In 1- and 4- well formats



CYTOOchambers™ are 35mm footprint devices specially designed and manufactured for our 2x2cm² square CYTOOchip™ format which enables you to do high resolution timelapse microscopy.

📌 Features

The CYTOOchamber uses a patented magnetic system (from Live Cell Instrument) for easy assembly. It is recommended for weak fluorescence signal observation.

The CYTOOchamber has the same footprint as standard 35mm culture dishes and therefore will fit into all 35mm microscope stage adaptors.

Elements:

- 1 bottom plate
- 1 upper main body
- 1 transparent glass cover
- 1 black silicone gasket + 1 extra
- 1 glass coverslip

📌 Cleaning and Storage

Before using the CYTOOchamber for the first time and between experiments, all parts should be washed quickly in soapy water (neutral dish washing liquid will do), rinsed extensively in distilled water, soaked in 70% ethanol and dried under a laminar hood.

Alternatively, the chamber can be autoclaved.

📌 Magnetic chamber assembly

Before using the magnetic chamber for the first time, we highly recommend you practice mounting the “dummy” coverslip provided with the CYTOOchamber a few times, as the magnetic force holding the two parts together is quite strong (see steps 3 and 4).

📌 Instructions (NEW)

1. Make sure the silicone gasket is correctly fitted on the main upper body.
2. Place a CYTOOchip in the bottom frame.



3. Grasp the thin bottom plate carrying the CYTOOchip by the sides in one hand and slowly bring it into contact with the main body. The main body will automatically attach to the bottom plate by magnetic force.
4. Prepare your cell suspension and check that cells are well dispersed. Count cells and adjust the suspension to a concentration of 60,000 cells per ml.

5. Dispense 450µl in the 1well CYTOOchamber (or 100µl in each of the 4well CYTOOchamber). Check that the liquid completely covers the bottom of each well.
6. Cover with the transparent lid.
7. Let the cells sediment for 10 min under the hood then move them to the cell incubator. The adhesion process will start immediately.
8. After 10-20 min, depending on the cell type, cells will start attaching (see the CYTOOchip protocol for more details on signs of attachment).
9. When cells appear attached, gently fill the well/wells with culture medium.
10. Wash gently the surface of the coverslip by changing the cell medium a few times to remove unattached cells (see step 5 of the CYTOOchip protocol for more details on the washing procedure).
11. Place the dish/plate in the cell incubator for at least one hour to allow cells to achieve full spreading.
12. When ready for videomicroscopy, fill the wells completely to obtain a plane surface and reduce meniscus-induced deformations under phase contrast (approx. 2.5ml for the 1well CYTOOchamber, 500µl per well for the 1well CYTOOchamber).
13. Place on the 35mm microscope stage adaptor, taking care to orient the chamber so that "CYTOO" is visible in the right bottom corner. This will orient the grid coordinates and make it easy to find your way around the CYTOOchip layout.
14. At the end of the live cell observation, cells can be fixed and stained directly in the chamber and then removed for final mounting. The Grid Positioning system on the CYTOOchip allows easy relocation of the previously imaged cells for further analysis in immunofluorescence.

Technical support

support@cytoo.com. Please use this email address for any questions or requests for information concerning the product. We will then put you in direct contact with one of our experts.

Ordering information

Cat. No.	Product
30-010	1well CYTOOchamber™ 35 mm
30-011	4well CYTOOchamber™ 35 mm
30-020	Microscope stage adaptor for 1 to 6 CYTOOchambers™

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