

The ibidi product family is comprised of a variety of μ-Slides and μ-Dishes, which have all been designed for high-end microscopic analysis of fixed or living cells.

The glass bottom versions of the μ-Slides and μ-Dishes are especially designed for TIRF, super resolution and single molecule applications. The μ-Slide 8 Well is an array of 8 square fields where cells and, subsequently, investigated with microscopical methods. It is intended for the optimization of experimental parameters like antibody dilution, seeding density, or the most effective drug concentration.

Material

The glass bottom version of the μ-Slides are made of a standard μ-Slide but with a glass coverslip bottom. It is not possible to detach the bottom. The μ-Slides are not autoclavable since they are temperature stable only up to 80°C / 175°F.

Optical Properties ibidi Glass Bottom

Refractive index n_D	1.523
Abbe number	55
Thickness	No. 1.5H (selected quality 170 μm, ± 5 μm)
Material	Schott borosilicate glass, D 263M

Geometry of μ-Slide 8 Well Glass Bottom

Outer dimensions in mm (w × l)	25.5×75.5
Number of wells	8
Dimensions of wells in mm (w × l × h)	9.4 × 10.7 × 6.8
Volume per well	300 μl
Total height with lid	8 mm
Growth area per well	1.0 cm ²
Coating area per well	2.2 cm ²
Bottom	Glass Bottom

Attention!

Be cautious when handling ibidi labware products with glass bottom! The glass coverslip or glass slide is very fragile and might break easily. Handle with care to avoid physical injury and damage to devices through leakage of the medium.

Shipping and Storage

The μ-Slides, μ-Dishes and μ-Plates are sterilized and welded in a gas-permeable packaging. The shelf life under proper storage conditions (in a dry place, no direct sunlight) is listed in the following table.

Conditions

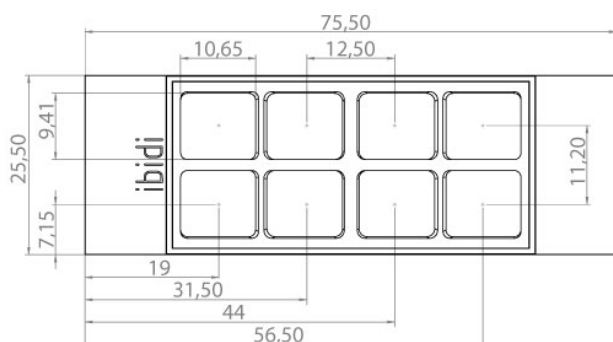
Shipping conditions	Ambient
Storage conditions	RT (15-25°C)

Shelf Life of Different Surfaces

ibiTreat, Glass Bottom, ESS	36 months
Collagen, Poly-L-Lysine	18 months

Geometry

The μ-Slide 8 Well Glass Bottom provides a standard slide format according to ISO 8037/1.



Surface

The μ-Slide 8 Well Glass Bottom is manufactured with an uncoated glass coverslip. Washing steps (e.g. with PBS) before cell seeding can remove glass dust which is advantageous for direct cell growth on the surface.

Coating

Specific coatings are possible following this protocol:

1. Prepare your coating solution according to the manufacturer's specifications or reference.
2. Apply 300 μl and leave at room temperature for at least 30 minutes.
3. Aspirate the solution and wash with the recommended protein dilution buffer.
4. Optionally let dry at room temperature. Attention, some coating proteins might degenerate when drying!

Detailed information about coatings is provided in [Application Note 08 Cell culture coating](#).

Seeding Cells

- Trypsinize and count cells as usual. Dilute the cell suspension to the desired concentration. Depending on your cell type, application of a $5-11 \times 10^4$ cells/ml suspension should result in a confluent layer within 2-3 days.
- Apply 300 μl cell suspension into each well of the slide. Avoid shaking as this will result in inhomogeneous distribution of the cells.
- Cover the slide with the supplied lid. Incubate at 37°C and 5% CO₂ as usual.

Undemanding cells can be left in their seeding medium for up to three days and grow to confluence there. However, best results might be achieved when the medium is changed every 1-2 days. Carefully aspirate the old medium and replace it by 300 μl fresh medium per well.

Cell Microscopy and Solvents for Fixation

To analyze your cells, no special preparations are necessary. Cells can be observed live, or fixed directly in

the μ-Slide 8 Well Glass Bottom, preferably on an inverted microscope. Due to the thin bottom, high resolution microscopy is possible. The material is compatible to most fixatives, like acidic acid, alcohols and PFA. For a full list of compatible solvents and more information on chemical compatibility, please visit the FAQ section on www.ibidi.com. For optimal results in fluorescence microscopy and storage of stained probes ibidi provides a mounting medium (50001) optimized for μ-Dishes and μ-Slides.

Immersion Oil

When using ibidi Glass Bottom products with oil immersion objectives, there is no known incompatibility with any immersion oil on the market. All types of immersion oils can be used.

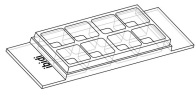
Tip:

As you may know from 96 well plates, the bent meniscus at the air-liquid interphase in small open wells destroys the phase contrast effect of your microscope image. To avoid this problem, we recommend using our channel Slides such as the μ-Slides I Luer and μ-Slide VI^{0.4} or a Ph+ Slide.

Ordering Information

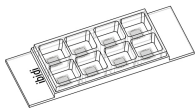
The μ-Slide 8 Well family comprises Slides with different surfaces and bottom characteristics. See table below for choosing your μ-Slide 8 Well.

μ-Slide 8 Well



Cat. No.	Description
80826	μ-Slide 8 Well ibiTreat: #1.5 polymer coverslip, tissue culture treated, sterilized
80822	μ-Slide 8 Well Collagen IV: #1.5 polymer coverslip, sterilized
80824	μ-Slide 8 Well Poly-L-Lysine: #1.5 polymer coverslip, sterilized
80821	μ-Slide 8 Well Uncoated: #1.5 polymer coverslip, hydrophobic, sterilized
80827	μ-Slide 8 Well Glass Bottom: 1.5H (170 μm ±5 μm) D 263 M Schott glass, sterilized

μ-Slide 8 Well Grid-500



Cat. No.	Description
80826-G500	μ-Slide 8 Well ibiTreat Grid-500: #1.5 polymer coverslip, tissue culture treated, grid repeat distance 500 μm, sterilized
80821-G500	μ-Slide 8 Well Uncoated Grid-500: #1.5 polymer coverslip, hydrophobic, grid repeat distance 500 μm, sterilized

For research use only!

Further technical specifications can be found at www.ibidi.com. For questions and suggestions please contact us by e-mail info@ibidi.de or by telephone +49 (0)89/520 4617 0. All products are developed and produced in Germany.

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