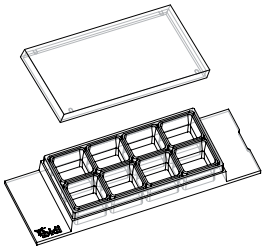


The ibidi product family is comprised of a variety of µ-Slides, µ-Dishes, and µ-Plates which have all been designed for high-end microscopic analysis of fixed or living cells. The high optical quality of the material is similar to that of glass, so you can perform all kinds of fluorescence experiments with uncompromised resolution and choice of wavelength. The µ-Slide 8 Well high is an 8 well chamber slide in which cells can be cultivated and, subsequently, investigated with microscopical methods. This open µ-Slide (chambered coverslip) is intended for cell culture, immunofluorescence, live cell imaging, and high-end microscopy.

Overview

This document is applicable to the following product numbers:

Cat. No.	Product Name
80806	µ-Slide 8 Well high ibiTreat: #1.5 polymer coverslip, tissue culture treated, sterilized, individually packed
80806-90	µ-Slide 8 Well high ibiTreat, Bulk Pack: #1.5 polymer coverslip, tissue culture treated, sterilized, individually packed
80806-96	µ-Slide 8 Well high ibiTreat, Bulk Pack: #1.5 polymer coverslip, tissue culture treated, sterilized, 8 per tray, 12 trays
80809	µ-Slide 8 Well high Collagen I: #1.5 polymer coverslip, sterilized, individually packed
80802	µ-Slide 8 Well high Collagen IV: #1.5 polymer coverslip, sterilized, individually packed
80804	µ-Slide 8 Well high Poly-L-Lysine: #1.5 polymer coverslip, sterilized, individually packed
80801	µ-Slide 8 Well high Uncoated: #1.5 polymer coverslip, hydrophobic, sterilized, individually packed

Material

ibidi µ-Slides, µ-Dishes, and µ-Plates are made of a polymer that has the highest optical quality. The polymer coverslip on the bottom exhibits extremely low birefringence and autofluorescence, similar to that of glass. Also, it is not possible to detach the bottom from the upper part. The µ-Slides, µ-Dishes, and µ-Plates are intended for one-time use and are not autoclavable, since they are only temperature-stable up to 80°C/175°F. Please note that gas exchange between the medium and the incubator's atmosphere occurs partially through the polymer coverslip, which should not be covered.

Optical Properties ibidi Polymer Coverslip	
Refractive index n_D (589 nm)	1.52
Abbe number	56
Thickness	No. 1.5 (180 µm)
Material	Polymer coverslip

Please note! The ibidi Polymer Coverslip is compatible with certain types of immersion oil only. A list of suitable oils can be found on page 3.

Shipping and Storage

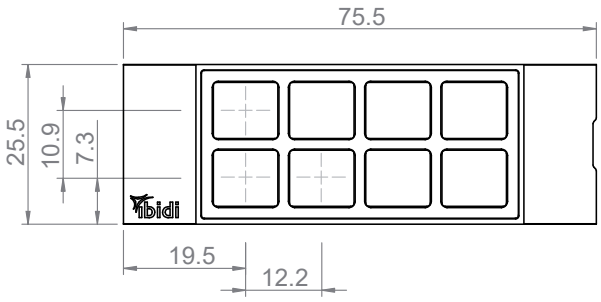
The µ-Slides, µ-Dishes and µ-Plates are sterilized and welded in a gas-permeable packaging. The shelf life under proper storage conditions (in a dry place, no direct sunlight) is listed in the following table.

Conditions	
Shipping conditions	Ambient
Storage conditions	RT (15–25°C)

Shelf Life	
ibiTreat, Uncoated	36 months
Collagen I, Collagen IV	18 months
Poly-L-Lysine	18 months

Geometry of the µ-Slide 8 Well high

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



Geometry	
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 × 9.3
Volume per well	300 µl
Height with/without lid	10.8/9.5 mm
Growth area per well	1.0 cm^2
Coating area per well	2.2 cm^2
Bottom	ibidi Polymer Coverslip

Surface

The tissue culture-treated ibiTreat surface is a physical surface modification and optimized for adhesion of most cell types. The uncoated surface is a very hydrophobic surface and allows no direct cell growth. It is suitable for specific coatings or suspension cells.

If you like to establish a particular coating for your demands we recommend testing your coating procedure on uncoated and ibiTreat surfaces, since some proteins and biomolecules adhere differently to hydrophobic or hydrophilic polymer surfaces.

The µ-Slide 8 Well high is also available with a Collagen Type I, Collagen Type IV or a Poly-L-Lysine coated surface. For the coating, only high quality proteins are used: Collagen Type I: ibidi #50203, Collagen Type IV: Corning #356233, Poly-L-Lysine: Sigma #P4832.

Coating

Detailed information about coatings is provided in Application Note 08: Coating protocols for ibidi labware products.

In short, 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. The µ-Slide 8 Well high is ready to be used. Optionally let dry at room temperature. Attention, some coating proteins might degenerate when drying!

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 × 10^4 cells/ml suspension should result in a confluent layer within 2–3 days.
- Apply 300 µl cell suspension into each well. 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 % CO_2 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.

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.

Chemical Compatibility

The following table provides some basic information on the chemical and solvent compatibility of the µ-Slide 8 Well high. For a full list of compatible solvents and more information on chemical compatibility, please visit the FAQ section on ibidi.com.

Chemical / Solvent	Compatibility
Methanol	yes
Ethanol	yes
Formaldehyde	yes
Acetone	yes, without lid
Mineral oil	no
Silicone oil	yes
Immersion oil	See **Immersion Oil** on page 3.

Microscopy

To analyze your cells, no special preparations are necessary. Cells can be directly observed live or fixed, preferably on an inverted microscope. The bottom cannot be removed. For optimal results in fluorescence microscopy and storage of fixed and stained samples, ibidi provides mounting media (50001 and 50011) optimized for µ-Dishes, µ-Slides, and µ-Plates.

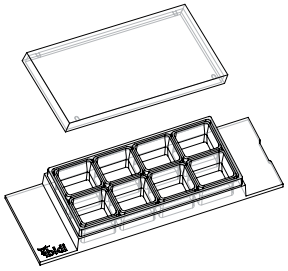
Immersion Oil

When using oil immersion objectives with the ibidi Polymer Coverslip, use only the immersion oils specified in the table below. The use of any non-recommended oil could damage the ibidi Polymer Coverslip. The resulting leakage may harm objectives and microscope components. All immersion oils that are not listed in the table below should be considered as non-compatible.

Company	Product	Ordering No.	Lot Number	Test Date
ibidi	ibidi Immersion Oil	50101	16-12-27	01/2017
Cargille	Type A	16482	100592	01/2017
Cargille	Type HF	16245	92192	01/2017
Carl Roth	Immersion oil	X899.1	414220338	01/2017
Leica	Immersion Liquid	11513859	n.a.	03/2011
Nikon	Immersion Oil F2 30cc	MXA22192	n.a.	01/2020
Nikon	Silicone Immersion Oil 30cc	MXA22179	20191101	01/2020
Olympus	Silicone Immersion Oil	SIL300CS-30CC	N4190800	01/2017
Zeiss	Immersol 518 F	444960	160706	01/2017
Zeiss	Immersol W 2010	444969	101122	04/2012

Ordering Information

µ-Slide 8 Well high



Cat. No.	Description
80806	**µ-Slide 8 Well high ibiTreat**: #1.5 polymer coverslip, tissue culture treated, sterilized, individually packed
80806-90	**µ-Slide 8 Well high ibiTreat, Bulk Pack**: #1.5 polymer coverslip, tissue culture treated, sterilized, individually packed
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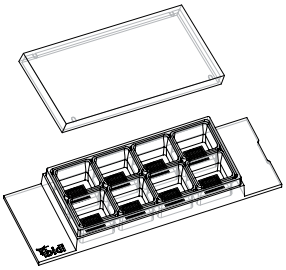
80802	**µ-Slide 8 Well high Collagen IV**: #1.5 polymer coverslip, sterilized, individually packed
80804	**µ-Slide 8 Well high Poly-L-Lysine**: #1.5 polymer coverslip, sterilized, individually packed
80801	**µ-Slide 8 Well high Uncoated**: #1.5 polymer coverslip, hydrophobic, sterilized, individually packed
80800	**µ-Slide 8 Well high Bioinert**: #1.5 polymer coverslip, surface passivation with Bioinert, sterilized, individually packed
80807	**µ-Slide 8 Well high Glass Bottom**: #1.5H (170 µm ±5 µm) D 263 M Schott glass, sterilized, individually packed
80807-90	**µ-Slide 8 Well high Glass Bottom, Bulk Pack**: #1.5H (170 µm ±5 µm) D 263 M Schott glass, sterilized, individually packed
80807-96	**µ-Slide 8 Well high Glass Bottom, Bulk Pack**: #1.5H (170 µm ±5 µm) D 263 M Schott glass, sterilized, 8 per tray, 12 trays

µ-Slide 8 Well high Grid-500



Cat. No.	Description
80806-G500	**µ-Slide 8 Well high ibiTreat Grid-500**: #1.5 polymer coverslip, tissue culture treated, grid repeat distance 500 µm, sterilized, individually packed

For research use only!

Further information can be found at ibidi.com. For questions and suggestions please contact us by e-mail *info@ibidi.de* or by telephone +49 (0)89/520 4617 0.