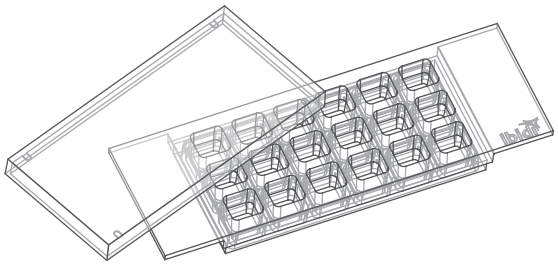
sticky-Slide 18 Well

Instruction Manual



The sticky-Slide family allows you to perform cell culture experiments with custom-specific bottom materials such as polymer films, glass coverslips, etc. The self-adhesive “sticky” underside of the bottomless, blank slide can be easily adapted to your specific bottom substrate.
The sticky-Slide 18 Well provides a common open well format, which is best suited for maximum sample access in a wide variety of experimental applications.

This document applies to the following product:

81818	**sticky-Slide 18 Well**

Material

The material of sticky-Slides is identical to that of µ-Slides. All sticky-Slides are delivered sterilized and individually packed. Please keep in mind that sterility is lost when non-sterile substrates are used. The sticky-Slides are not autoclavable, as they are only temperature-stable up to 60 °C/140 °F.
The sticky bottom itself is a 50 µm biocompatible double-faced adhesive tape. The tape is covered by a protection film, which must be removed before usage.

Shipping and Storage

The sticky-Slides are sterilized and sealed in a gas-permeable packaging. The shelf life under proper storage conditions (in a dry place, no direct sunlight) is outlined in the following table.

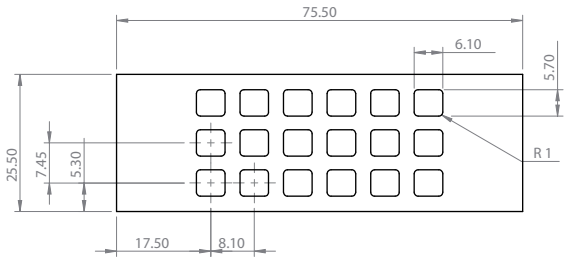
Conditions	
Shipping conditions	Ambient
Storage conditions	RT (15–25 °C)

Shelf Life	
sticky-Slides	36 months

Geometry

Apart from the bottom material, all technical details are identical to those of the µ-Slide 18 Well. The sticky-Slides provide standard slide format according to ISO 8037/1.

Specifications	
Outer dimensions (w × l)	25.5 × 75.5 mm^2
Number of wells	18
Dimensions of wells (w × l × h)	5.7 × 6.1 × 6.8 mm^3
Volume per well	100 µl
Height with/without lid	8.2/6.8 mm
Growth area per well	0.34 cm^2
Coating area per well	1.15 cm^2
Bottom	none



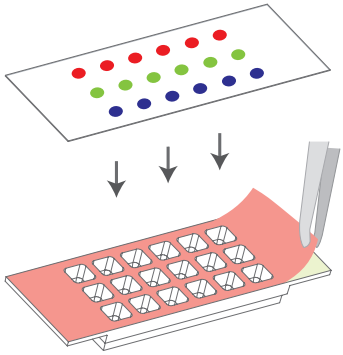
Surface Compatibility

sticky-Slides are compatible with flat, clean, dust-free, fat-free surfaces, such as glass coverslips, plastic, metal, or electrode structures. Best results are achieved with completely dry surfaces. Please test your specific surface with a free sample from ibidi.com.

Handling and Assembly

Assemble the sticky-Slides with a convenient bottom material, matching your experimental needs. The following steps describe the process of assembling:

1. Prepare your sample and/or bottom material.
2. Remove the protection film of the sticky-Slides.
3. Mount bottom material and sticky-Slide by pressing firmly with your fingers (use gloves) until the bottom is completely sealed. Make sure there is no air between the sticky-Slide and the bottom material.
4. To confirm strong adhesion, invert the sticky-Slide and check for air gaps. If air gaps are detected, remove them by pressing on the adhesive interface. For best results, use our Clamp for sticky-Slides (ibidi, 80040) and the corresponding adapter after assembly.
5. For a maximum of adhesion, incubate the assembled sticky-Slide at 37 °C for 8 hours in a dry or humid incubator.



Seeding Cells

1. Trypsinize and count cells as usual. Dilute the cell suspension to the desired concentration. Depending on your cell type, application of 5–11 × 10^4 cells/ml should result in a confluent layer within 2–3 days.
2. Apply 100 µl cell suspension per well. Avoid shaking the sticky-Slide as this will result in an inhomogeneous cell distribution.
3. Cover the sticky-Slide with the supplied lid. Incubate as usual (e.g., at 37 °C and 5% CO_2).

Insensitive cells can be left in their seeding medium for up to three days and grow to confluence. However, optimal results might be achieved when the medium is changed every 1–2 days. For this, carefully aspirate the old medium and replace it by 100 µl fresh medium per well.

Disassembly

To remove sticky-Slides from the substrate, dissolve the adhesive bottom with acetone. Place the sticky-Slide overnight in a suitable, acetone-filled glass container (e.g., a beaker). Be aware that acetone may damage the used substrate. Once the sticky bottom is removed, the sticky-Slides cannot be reused.

Immersion Oil

The compatibility with immersion oil depends on the used substrate.

Chemical Compatibility

The following table provides basic information on the chemical and solvent compatibility of the sticky-Slide 18 Well. For a full list of compatible solvents and more information on chemical compatibility, visit ibidi.com/chemicals.

Chemical / Solvent	Compatibility
Methanol	Yes
Ethanol	Yes
Formaldehyde	Yes
Acetone	No
Mineral oil	Yes
Silicone oil	Yes
Immersion oil	See Section “Immersion Oil”

For research use only!

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