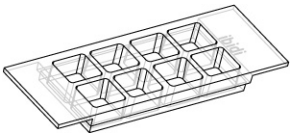


The sticky–Slide family allows you to perform cell culture experiments with custom–specific bottom materials like plastic sheets, glass slides, spotted coverslips, printed circuit boards, etc. The self adhesive (”sticky”) underside of the bottomless blank slide is easily adapted to your specific substrate by pressing on by hand.

sticky–Slide 8 well provides a common open well format which is best suited for maximum sample access in a wide variety of experimental applications.

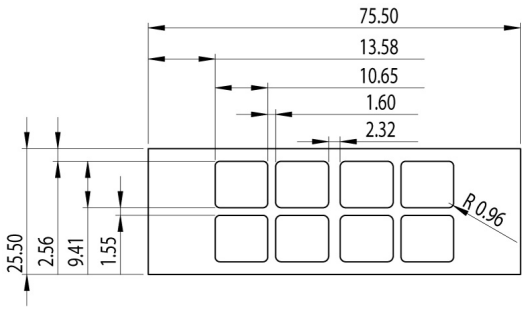
Material

The slide material of sticky–Slides is identical to common µ–Slides (uncoated). The Slides are not autoclavable since they are temperature stable up to 60°C/140°F only. All sticky–Slides are delivered sterile and single packed. Please keep in mind that sterility is lost when non–sterile substrates are used.
The sticky bottom itself is a 50 µm biocompatible double–faced adhesive tape. The tape is covered by a protection film which has to be removed before usage.

Geometry

All technical details beside bottom material are identical to µ–Slide 8 well. The Slides provide standard slide format according to ISO 8037/1.

Geometry of sticky–Slide 8 well	
Number of wells	8
Dimension of wells ($w \times l \times h$) in mm	$9.4 \times 10.7 \times 6.8$
Recommended volume per well	300 µl
Total height with lid	8 mm
Growth area per well	1.0 cm^2
Bottom	none



Handling and Assembling

- Prepare your sample and/or bottom material.
- Remove the protection film by using sterile tweezers.
- Optionally for channel sticky–Slides, place your sample into the channel.
- Mount bottom and sticky–Slide with some pressure. Press well until the bottom is sealed.
- Incubate at 20-40°C for best results.
- Conduct your experiment.

The adhesive strength strongly depends on temperature and time. Best results are achieved by storing the assembled Slides over night at 20-40°C. Anyhow, sticky–Slides are not leaky immediately after assembling.

sticky–Slides can be removed from the substrate by dipping them into Acetone over night in an appropriate glass container (e.g. a beaker). Please keep in mind that Acetone might be harmful to your used substrate. Once removed sticky–Slides cannot be reused.

Surface compatibility

sticky–Slides are compatible with all flat, clean, dust–free, fat–free surfaces like glass, plastic, metal, silicium or electrode structures. sticky–Slides can be assembled with wet surfaces (protein–free, aqueous solutions like water or PBS buffer). Dusty or fatty surfaces like wax foils or similar surfaces are not compatible. Please test your specific surface in your lab with free samples from www.ibidi.com.

Best results are achieved when flexible substrates like plastic sheets or coverslips are used. Rigid glass slides or metal surfaces are also possible to use but need more pressure to seal.

Seeding cells

- Trypsinize and count cells as usual. Dilute the cell suspension to the desired concentration. Depending on your cell type, application of a 4–9 $\times 10^4$ 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 reservoirs with the supplied lid. Incubate at 37°C and 5 % CO_2 as usual.

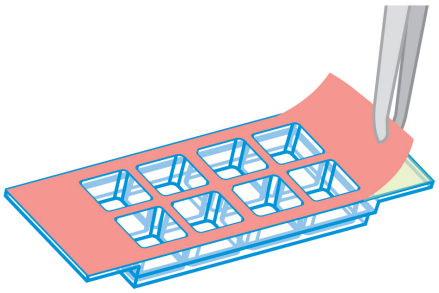
Undemanding cells can be left in their seeding medium for up to three days and grow to confluence there. However, best results might be achieved when the medium is changed every 1–2 days. Carefully aspirate the old medium and replace it by 300 µl/well fresh medium.

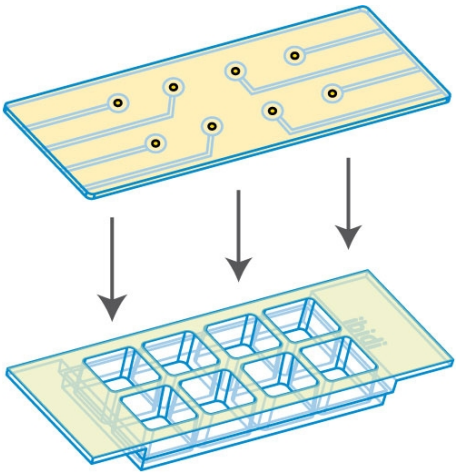
Immersion Oil

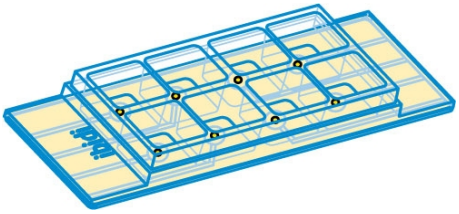
Immersion oil compatibility depends on the used substrate.

Applications

sticky–Slide 8 well provides a common open well format which is best suited for maximum sample access, e.g. when cells have to be seeded onto a titanium implant material.







Solvents for Fixation, Staining and Other Purposes

The sticky bottom material and the slide material are compatible to Methanol, acids, alkalis, PFA, DMSO, and silicone oil. Please keep in mind that these substances may be harmful to the used substrate. Acetone is not compatible with the sticky material so it can be used to detach slide and substrate after use.

sticky–Slide family

The sticky–Slide technology is available with different slide formats. Please see table below for choosing your sticky–Slide.

Product name	Ordering number	Based on µ–Slide format	Characteristics
sticky–Slide 8 well	80828	µ–Slide 8 well	8 open wells (volume 300 µl)
sticky–Slide VI $^{0.4}$	80328	µ–Slide VI $^{0.4}$	channel slide (height 400 µm)
sticky–Slide Chemotaxis 3D	80608	µ–Slide Chemotaxis 3D	for chemotaxis experiments
sticky–Slide I $^{0.1}$ Luer	81128	µ–Slide I $^{0.1}$ Luer	channel slide (height 100 µm)
sticky–Slide I $^{0.2}$ Luer	80168	µ–Slide I $^{0.2}$ Luer	channel slide (height 200 µm)
sticky–Slide I $^{0.4}$ Luer	80178	µ–Slide I $^{0.4}$ Luer	channel slide (height 400 µm)
sticky–Slide I $^{0.6}$ Luer	80188	µ–Slide I $^{0.6}$ Luer	channel slide (height 600 µm)
sticky–Slide I $^{0.8}$ Luer	80198	µ–Slide I $^{0.8}$ Luer	channel slide (height 800 µm)
glass coverslips, unsterile	10812		25.0 mm × 75.0 mm, No. 1.5 (selected quality, 170 µm ± 10 µm)

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.