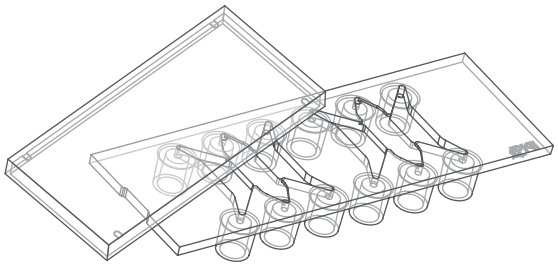
sticky-Slide Tissue Engineering

Instruction Manual



The sticky-Slide Tissue Engineering is the bottomless version of the µ-Slide Tissue Engineering. It permits the mounting of a variety of bottom materials and is used for microfabrication applications and fluidic access.

This document applies to the following product:

80238	**sticky-Slide Tissue Engineering**

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 85 µm biocompatible double-faced adhesive tape. The tape is covered by a protection film, which must be removed before usage.

Shipping and Storage

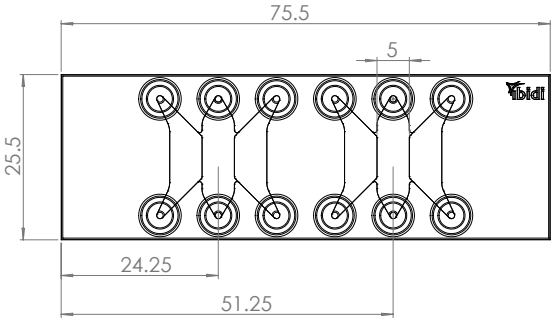
The sticky-Slides are sterilized and sealed in a gas-permeable packaging. The shelf life under proper storage conditions (in a dry place, no direct sunlight) is outlined in the following table.

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

Shelf Life	
sticky-Slides	36 months

Geometry

The sticky-Slide Tissue Engineering provides a standard slide format according to ISO 8037/1.



Specifications	
Outer dimensions (w × l)	25.5 × 75.5 mm
Adapters/reservoirs	Female Luer
Volume per reservoir	60 µl
Workspace:	
- Volume	36 µl
- Height	0.485 mm
- Growth area	0.77 cm^2
- Coating area	1.56 cm^2
Each side channel:	
- Volume	140 µl
- Height	1.685 mm
- Growth area	0.64 cm^2
- Coating area	2.00 cm^2
Bottom	none

Surface Compatibility

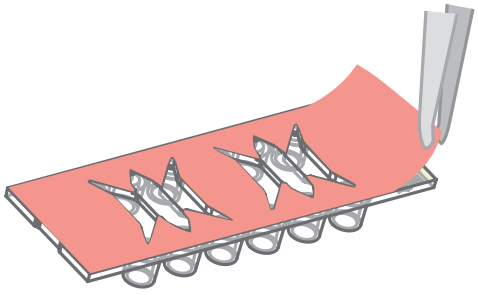
sticky-Slides are compatible with flat, clean, dust-free, fat-free surfaces, such as glass coverslips, plastic, metal, or electrode structures. Best results are achieved with completely dry surfaces. Please test your specific surface with a free sample from ibidi.com.

TIP – To minimize air bubbles in the gel, when using gel with the sticky-Slide Tissue Engineering, equilibrate the sticky-Slide Tissue Engineering in the incubator overnight before use. The packaging of the µ-Slide is made of a gas-permeable material, so unpacking is not necessary for the gas equilibration step.

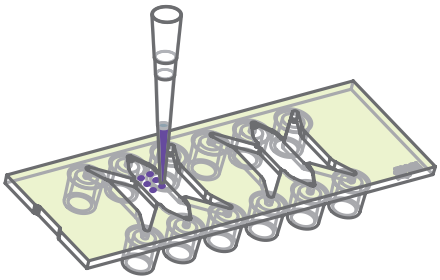
Handling and Assembly

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

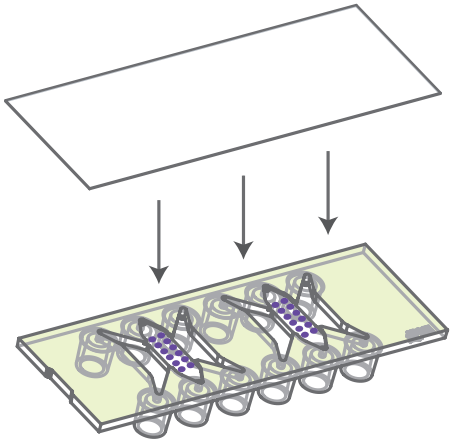
1. Remove the protection film of the sticky-Slide.



2. Prepare your sticky-Slide and bottom material.



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 (ibidi, 80043) 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.

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 Tissue Engineering. 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.