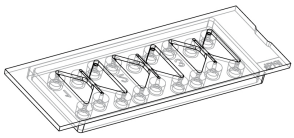


The sticky–Slide family allows you to perform cell culture experiments with custom–specific bottom materials like plastic sheets, glass slides, spotted coverslips, printed circuit boards, etc. The self adhesive (”sticky”) underside of the bottomless blank slide is easily adapted to your specific substrate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

The sticky–Slide Chemotaxis 3D is a tool for investigation of chemotaxis and migration of non–adherent or adherent cells in gel matrices. The chamber’s geometry is optimized for analyzing chemotaxis by video microscopy. The linear concentration profile which is required for chemotactical movement is generated by diffusion through aqueous gels and stable for at least 48 hours.

The sticky version can be used to insert material into the large reservoirs or for assembling with custom–specific bottom materials, like glass coverslips or structured substrates.

Please read the following Application Notes for more detailed information:

Application Note 17 ”3D Chemotaxis Assays using µ–Slide Chemotaxis” and Application Note 23 ”3D Chemotaxis Protocol with Collagen I Gel for Dendritic Cells”.

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 Chemotaxis. The Slides provide standard slide format according to ISO 8037/1.

Geometry of the sticky–Slide Chemotaxis	
Chambers on slide	3
Volume per chamber	140 µl
Observation area	2×1 mm^2
Total height with plugs	12 mm
Volume chemoattractant	30 µl
Bottom	none

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.

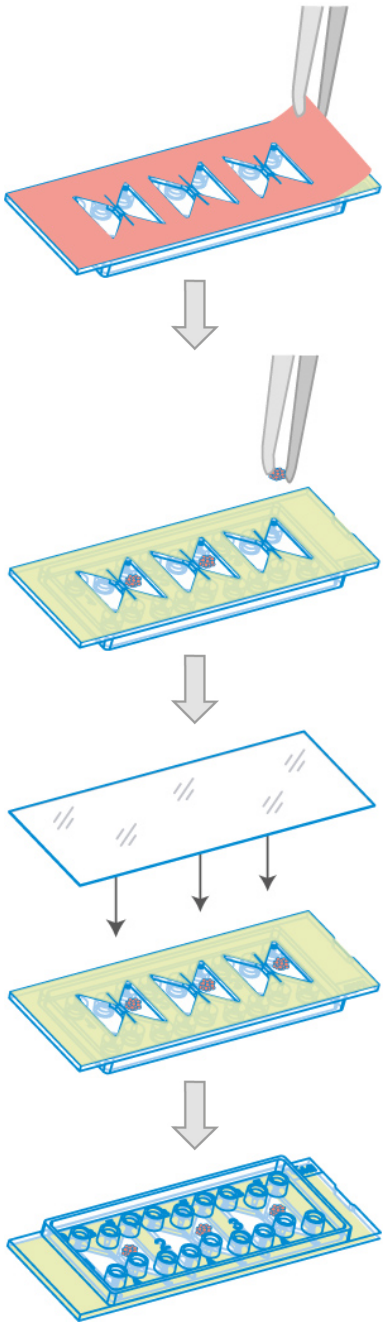
Conditions	
Shipping conditions	Ambient
Storage conditions	RT (15-25°C)

Shelf Life of Different Surfaces	
ibiTreat, Glass Bottom, ESS	36 months
Collagen, Poly-L-Lysine	18 months

Handling and Assembling

Assemble the sticky–Slides with a convenient bottom material, matching your experimental needs. Use our Clamp for sticky-Slides for a comfortable assembling (ibidi, 80040).

- 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. For best results use our Clamp for sticky–Slides (ibidi, 80040).
- 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

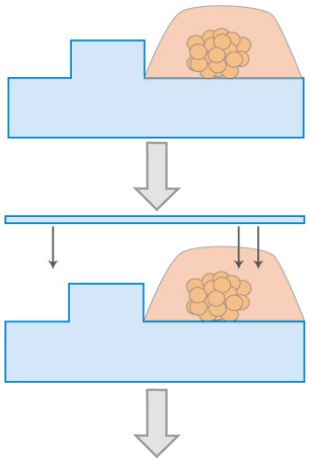
Please read the following Application Notes for more detailed information:

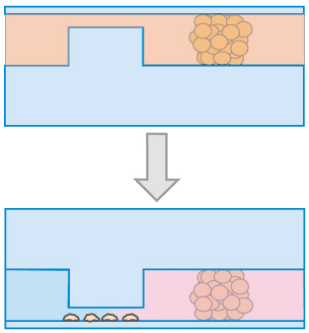
Application Note 17 "3D Chemotaxis Assays using µ–Slide Chemotaxis": This AN contains a general protocol for 3D gel assays with µ–Slide Chemotaxis. There is also detailed handling information.

Application Note 23: "3D Chemotaxis Protocol with Collagen I Gel for Dendritic Cells": This AN provides an example protocol for chemotaxis of Dendritic cells in a collagen gel.

Applications

The sticky–Slide Chemotaxis is a special geometry for creating stable concentration gradients. The sticky technology allows insertion of cell clusters which cannot easily be pipetted, like spheroids or tissue samples. Those samples can be used as chemoattractant producers or used in gels for e.g. endothelial cell sprouting assays.





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.

Immersion Oil

Immersion oil compatibility depends on the used substrate.

Ordering Information

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

sticky–Slides

Cat. No.	Description
80828	**sticky–Slide 8 Well**: sterilized
80328	**sticky–Slide VI $^{0.4}$**: sterilized
80608	**sticky–Slide Chemotaxis**: sterilized
81128	**sticky–Slide I $^{0.1}$ Luer**: sterilized
80168	**sticky–Slide I $^{0.2}$ Luer**: sterilized
80178	**sticky–Slide I $^{0.4}$ Luer**: sterilized
80188	**sticky–Slide I $^{0.6}$ Luer**: sterilized
80198	**sticky–Slide I $^{0.8}$ Luer**: sterilized
10812	**Coverslips for sticky–Slides**: #1.5H (170 µm ±5 µm) D 263 M, Schott glass, 25 mm × 75 mm, unsterile
10813	**Coverslips for sticky–Slides Uncoated**: #1.5 polymer coverslip, 25 mm × 75 mm, unsterile
10814	**Coverslips for sticky–Slides ibiTreat**: #1.5 polymer coverslip, tissue culture treated 25 mm × 75 mm, unsterile

Clamp for sticky–Slides

Cat. No.	Description
80040	**Clamp for sticky-Slides**
80041	**Adapter for sticky–Slide 8 Well**:
80042	**Adapter for sticky–Slide I Luer**:
80043	**Adapter for sticky–Slide VI $^{0.4}$**:
80044	**Adapter for sticky–Slide Chemotaxis**:

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.