

## Important Handling Information

for the  $\mu$ -Slide Chemotaxis<sup>3D</sup>

# READ THIS BEFORE USE

Read this information sheet in its entirety **BEFORE** working with the  $\mu$ -Slide Chemotaxis<sup>3D</sup>. The following points are essential for successful handling.

### 1. Pipet Tips

Due to the filling ports' design, this slide is only compatible with the following pipet tips. Using other tips will skew your results.

- Greiner Bio-One 739621, 739280, 739290, 772288
- Axygen T-200-C, TR-222-C, TR-222-Y
- Starlab TipOne RPT S1161-1800
- Sorenson BioScience MulTi Fit Tip 10590, 15320, 15330

### 3D Specific Information

**Cells in 2D and 3D:** Cells should be surrounded by 3D gel. Adherent cells might sink down and attach to the 2D surface due to durotaxis. Please make sure to distinguish clearly between cells adhered to surfaces (typically spread out), and cells really in 3D (typically spherical or spindle like).

### 2. Degassing Slides

Place slides and medium in an incubator **before** use to ensure that all gasses have been removed. Gas bubbles **will** ruin your assay. You may leave the slide enclosed in the sterile package when doing this.

### 3. Humidity and Evaporation

Evaporation can occur due to the small volume of the slides. It is **imperative** to maintain high humidity during the attachment of your cells in order to avoid evaporation.

# IMPORTANT HANDLING INFORMATION

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## General

- Read and directly follow instructions provided in Application Note 17. [http://ibidi.com/fileadmin/support/application\\_notes/AN17\\_Chemotaxis3D.pdf](http://ibidi.com/fileadmin/support/application_notes/AN17_Chemotaxis3D.pdf)
- The assay is not an endpoint measurement, thus cell migration and chemotaxis must be followed by video microscopy. Go to [www.ibidi.com](http://www.ibidi.com) to download our Chemotaxis and Migration Tool.
- Contact us at [info@ibidi.com](mailto:info@ibidi.com) for support, questions, or comments.

## Pipet Tips and Pipets

- You **must** use the recommended 20-200  $\mu$ l beveled pipet tips when preparing the slide.
- Make sure that your pipet is working properly and maintain constant pressure during operation. Use a pipet which is serviced and calibrated routinely.
- Make sure to fill the pipet adapters on the slide fully; avoid air bubbles inside the pipet tip.

## Gas Equilibration

- Incubate all media, slides and slide caps/plugs **overnight** for gas and temperature equilibration.
- Loosen screw top on media container to ensure gas escape. Do not remove completely in order to maintain sterility.
- The  $\mu$ -Slide Chemotaxis<sup>3D</sup> and slide plugs/caps come in a sterile package. This can be put directly into your incubator without opening to maintain sterility.

## Evaporation

- To avoid evaporation during cell attachment, place the  $\mu$ -Slide Chemotaxis<sup>3D</sup> into a 10 cm Petri Dish and surround completely by wet tissue. Use sterile tissue and water.
- Do not open your incubator on a frequent basis during cell attachment.

## Handling

- Use the provided practice kit with colored water to practice pipetting.
- Keep in mind that air has to escape when filling a chamber. Always inject into a pipet adapter or channel which is already filled.
- If coating the slides yourself, the chambers must be allowed to dry completely.

Register for a 2 day  
Laboratory Course at ibidi  
Munich / Germany:

[http://ibidi.com/events/  
practical-courses](http://ibidi.com/events/practical-courses)

