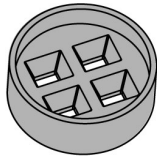


## Instructions

## Culture-Insert StemCell



The Culture-Insert StemCell is a product for long term microscopy studies especially stem cell cultivation. A special sticky and biocompatible surface at the bottom side works like a glue and avoids leaking. Adherent or non-adherent cells placed into the small wells sink to the bottom and can be analyzed microscopically. The wells provide rectangular digital format (4:3) for covering the entire area by CCD cameras on microscopes. Inclined walls provide excellent optical access to all cells located near the edges of the well. Optionally, after cell attachment the insert can be removed by using sterile tweezers. There are no remains on the surface.

### Material

The product is manufactured from biocompatible silicone material. Although, the material is autoclavable and compatible to alcohols we do not recommend reusing it.

### Geometry

#### Geometry of the Culture-Insert StemCell

Number of wells	4
Well dimensions	2.0 mm × 1.5 mm
Growth area	4 × 0.03 cm <sup>2</sup>
Diameter	12 mm
Height	4.2 mm
Volume small well	10 µl
Volume complete insert	150 µl

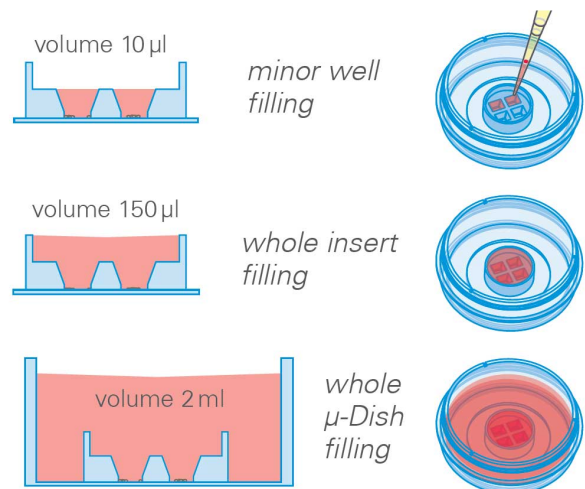
We recommend using the Culture-Insert StemCell in ibidi µ-Dishes, 6 well plates, 12 well plates or large Petri dishes. It is also possible to use them on sterile glass coverslips or glass slides.

### Surfaces and coatings

The inserts can be transferred to any flat, clean, and dry surface. Use sterile tweezers for transfer and gently push. Keep in mind that only the bottom side is sticky. Culture-Insert StemCell is not working on wet or moist surfaces. It might also not work on uneven or dusty substrates.

### Seeding cells

- Prepare cell suspension as usual. Depending on your cell type application of a  $1 - 7 \times 10^5$  cells/ml should result in a confluent layer within 24 hours.
- Apply 10 µl into each well. Avoid shaking as this will result in inhomogeneous cell distribution.
- Incubate at 37 °C and 5 % CO<sub>2</sub> as usual.
- Optionally, it is possible to fill the outer area with cell suspension or cell medium.
- Conduct your experiment.



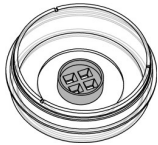
#### Tip:

In case the cell lawn is (partially) removed together with the insert use a smaller seeding density to create a less confluent cell layer or decrease incubation time.

**Culture–Insert StemCell family**

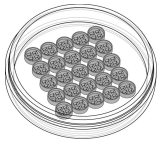
The Culture–Insert StemCell is available in different product versions.

Culture–Insert StemCell,  $\mu$ -Dish <sup>35mm, high</sup>



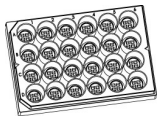
Ordering number	Treatment	Characteristics
80406	ibiTreat, sterile	hydrophilic, in $\mu$ -Dish <sup>35mm, high</sup>
80401	uncoated, sterile	hydrophobic, in $\mu$ -Dish <sup>35mm, high</sup>

25 Culture–Inserts StemCell for self insertion



Ordering number	Treatment	Characteristics
80409	no direct use, sterile	for self insertion, in transport dish

Culture–Insert StemCell 24



Ordering number	Treatment	Characteristics
80246	tissue culture treated polystyrene*, sterile	hydrophilic, in 24 well plate
80245	uncoated, polystyrene*, sterile	hydrophobic, in 24 well plate

\*This plate is made of PS which is not suitable for fluorescence or high resolution microscopy.

**For research use only!**

Further technical specifications can be found at [www.ibidi.com](http://www.ibidi.com). For questions and suggestions please contact us by e-mail [info@ibidi.de](mailto:info@ibidi.de) or by telephone +49 (0)89/520 4617 0. All products are developed and produced in Germany.

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