

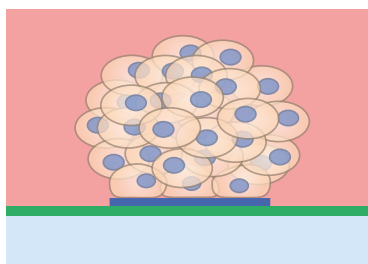
3D Cell Culture

Solutions for Spheroids,
Organoids, and Single Cells

Mimic the Cellular Microenvironment and Get High-Resolution Images

ibidi develops solutions for 3D culture of cells that are:

- grown in suspension on a non-adhesive surface
- embedded in, or on, a 3D matrix, allowing them to grow in all directions
- in need of perfusion, ensuring optimal oxygen and nutrient supply



Bioinert and
μ-Patterning Surfaces



ibidi Collagen
Type I



Slides, Dishes,
and Plates

*Top left: Confocal microscopy of an immunostained mouse small intestine organoid grown in Matrigel drops using a μ-Slide 8 Well.
Naveen Parmar, NTNU, Norway.*



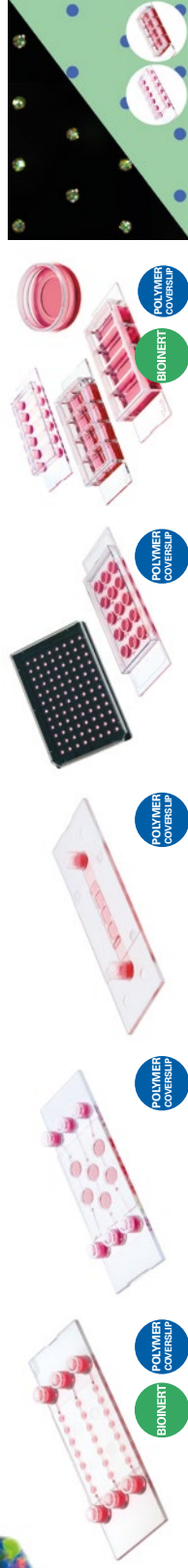
Find more solutions for
3D cell culture at:

ibidi.com/3D



3D Cell Culture

Solutions for Spheroids, Organoids, and Single Cells



Which Labware Is Recommended for My 3D Application?

μ-Slide Spheroid Perfusion
A perfusable channel slide with 3 x 7 wells for long-term spheroid cultivation

μ-Slide III 3D Perfusion
A flow slide for optimal nutrient supply during long-term cell or organoid culture

μ-Slide I Luer 3D
A slide with one channel and three wells for culturing cells on a 3D gel matrix under flow

μ-Slide 15 Well 3D μ-Plate 96 Well 3D
A slide or plate for easy, cost-effective 3D cell culture and microscopy in, or on, a gel matrix

Bioinert μ-Slides and μ-Dishes
Labware with a completely non-adherent surface providing stable long-term passivation

μ-Slides With Multi-Cell μ-Pattern
Multiple cells on one spot: Ready-to-use μ-patterned slides with ideal spacing for spheroids/organoids

Surface	Bioinert	ibiTreat	ibiTreat	ibiTreat	ibiTreat	Bioinert	μ-Pattern on Bioinert
Application							
3D cell aggregates	✓	✓ inside gel	✓ inside gel	✓ inside gel	✓ inside gel	✓	✓
Gel matrices for 3D	–	✓	✓	✓	–	–	–
Perfusion of samples	✓	✓	✓ with defined shear stress	–	–	–	✓
Cell Type							
Spheroids / organoids	✓ free floating in well	✓ inside gel	✓ inside gel	✓ inside gel	✓ inside gel	✓ free floating in well	✓ attached on μ-Pattern
Suspension cells	✓ free floating in well	✓ inside gel	✓ inside gel	–	–	✓	–