



MIMETIX
CELLS IN 3D

Mimetix[®] 12-well plate



Scaffold discs in the wells are removable, held in place by retaining rings and can be taken out for imaging purposes.

Product Code : TECL-003

Product Description:

In our Mimetix 12-well plate (supplied with lid) scaffold discs are held in place by retaining rings. Discs can be transferred to a new plate or mounted on a glass slide for imaging purposes.

General Features:

- True 3D environment rather than a roughened 2D surface
- Minimal protocol adaption required to switch from 2D to 3D
- Compatible with fluorescence microscopy
- Scaffolds can be coated with materials to facilitate cell adhesion in low serum conditions
- Protocols for cell seeding, retrieval, assays, and imaging are available in the [Technical Support](#) section on our website

Scaffold Specifications:

- Material: medical-grade poly-L-lactide (PLLA)
- Orientation: Random, non-woven
- Thickness: 50 μm
- Fibre diameter: 4 μm (15-30 μm pores)
- Overall porosity: app. 80%
- Non-biodegradable in *in vitro* applications

Plate specifications:

- Corning 12-well plate: see http://csmmedia2.corning.com/LifeSciences/media/pdf/LSR00002_Multiwell_TC_Plates_12_Well.pdf
- Supplied with lid in individually-sealed plastic wrapping
- Treated with gamma or e-beam irradiation
- Store at room temperature in the dark
- Manufactured in the United Kingdom



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Precondition

The Mimetix scaffold needs to be wetted with ethanol in order to allow a cell suspension to access the pores.

- Add 1 mL 20% ethanol per well.
- Allow ethanol to soak into the membrane for 5 min, then aspirate ethanol carefully without touching the scaffold.

Wash

- Wash scaffold twice with PBS.
- Leave scaffold in cell culture medium until cell seeding.

Seed

These seeding densities are general guidelines only.

- Add 50,000-100,000 cells suspended in 1 mL cell culture medium.

Exchange medium

- For long-term experiments semi-exchange the cell culture medium every 3 days.

